



**JORDAN UNIVERSITY of SCIENCE &
TECHNOLOGY**

FACULTY OF APPLIED MEDICAL SCIENCES

CURRICULUM FOR THE MASTER'S DEGREE

IN

OCCUPATIONAL THERAPY

THESIS TRACK

2025

About the Program

The Master of Science program in Occupational Therapy was established in 2025 at Jordan University of Science and Technology to prepare qualified professionals with the latest developments in field of occupational therapy, and to meet the needs of the local and international market for graduates with a high level of scientific and research competence. The Faculty of Applied Medical Sciences, through the Department of Rehabilitation Sciences, offers the Master of Science program in Occupational Therapy, which includes 34 credit hours distributed over two academic years. The program includes both thesis and comprehensive tracks, with three specialization areas (i.e., Physical dysfunctions, pediatric rehabilitation, and psychosocial rehabilitation), which allows enrolled students to focus on a particular field of occupational therapy. This program, which is the first of its kind in Jordan, aims to equip graduates with scientific, clinical, and research skills that prepares them to join doctoral programs, and to enhance their value of self-learning, critical thinking, and creativity in occupational therapy.

Vision

To achieve leadership at the local and regional level in education, training and scientific research in the field of occupational therapy and rehabilitation sciences and to prepare qualified graduates with scientific and practical expertise to meet the needs of the labor market.

Mission

To develop and disseminate scientific knowledge and build practical experience in the field of occupational therapy and rehabilitation sciences in accordance with the university strategy and international quality standards, and contribute to the development of human resources for the needs of scientific development and building the scientific community and scientific research in the field of rehabilitation sciences.

Objectives

- Preparing qualified professionals who are up-to-date with the latest technological advancements in occupational therapy.
- Training occupational therapist to work in the academic field and to conduct scientific research.
- Building local and international partnerships in the field of scientific research in occupational therapy.
- Promoting the value of self-learning, critical thinking and creativity in the specialized fields of occupational therapy practice.
- Developing the ability of therapists to practice evidence-based occupational therapy.
- Stimulating scientific research in the field of occupational therapy, where Master's program affiliates can address clinical practice problems.
- Equipping graduates with scientific and research skills that enable them to enroll in doctoral programs after graduation

Outcomes

1. Obtain and utilize advanced knowledge in occupational therapy with emphasis on specialized areas of practice like the rehabilitation of cases with physical dysfunction, pediatric conditions, and biopsychosocial problems.
2. Use creative thinking, problem solving, teamwork, and effective communication skills in addressing practice issues and analyzing clinical cases within an interdisciplinary.
3. Acquire knowledge of innovative approaches and emerging technologies to optimize the process and outcomes of rehabilitation in occupational therapy practice and research.
4. Demonstrate the ability to apply advanced skills in screening and assessment to determine the need for occupational therapy intervention taking into consideration the client needs and other related contextual factors.
5. Design and implement innovative occupation-based interventions to address various deficits that may affect occupational performance.
6. Integrate evidence-based knowledge into occupational therapy practice and advocate for interdisciplinary



healthcare services to promote better networking, and comprehensive client care.

7. Explore ambiguous and complex clinical cases through strategic problem-solving, adaptability, and resilience in decision-making for optimal care delivery.

8. Adopt an approach of self-directed learning and continuous professional development to enhance acquisition of theoretical knowledge and clinical skills

9. Demonstrate leadership and accountability in fostering interdisciplinary collaboration to improve patient care delivery.

10. Contribute to the development of vocational knowledge and sharing expertise within the professional community of occupational therapy.

11. Assess team dynamic and performance while implementing strategies for enhancing care quality in occupational therapy practice.



Study Plan of The Master's Degree in OCCUPATIONAL THERAPY

The Master's Degree in OCCUPATIONAL THERAPY is awarded by the Faculty of Graduate Studies at Jordan University of Science and Technology (JUST) upon the fulfillment of JUST running Master's degree regulations and the Successful completion of 34 credit hours as follows:

Requirements	Credit Hours		
	Compulsory Hours	Elective Hours	Total
Department Requirements	19	6	25
Specialization Requirements	9	0	9
Total	28	6	34

Curriculum for Master degree in OCCUPATIONAL THERAPY 2024-2025





Firstly: Department Requirements

Allocated to it (25 CHs) distributed as follows:

a. Compulsory Requirements (19 CHs) as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T712	Advanced Educational Methods	1	1	1	
O.T721	Theories of Occupational Therapy and Occupational Science	3	2	2	
O.T731	Scientific Research Methods	3	2	2	
O.T732	Statistical Analysis in Health Sciences	3	2	2	
O.T734	Evidence-Based Practice in Occupational Therapy	2	2	1	
O.T771	Advanced Management in Medical Sciences	2	2	1	
O.T773	Community-Based Occupational Therapy	2	1	1	
O.T781	Clinical Placement in Occupational Therapy (1)	3	1	6	

b. Elective Requirements (6 CHs) as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T760	Introduction to Assistive Technology (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T762	Advanced Occupational Therapy for Neurological Disorders (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T764	Advanced Theories in Motor Control and Learning (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T766	Advanced Methods in Hand Rehabilitation (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T768	Advanced Occupational Therapy for Orthopedic Conditions (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T769	Special Topics in Occupational Therapy (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T752	Advanced Pediatric Occupational Therapy (Cognitive Domain: Pediatric Rehabilitation)	3	2	2	



Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T754	Rehabilitaion of Children with Pervasive Developmental Disorders (Cognitive Domain: Pediatric Rehabilitation)	3	2	2	
O.T756	Sensory Processing and Integration in Occupational Therapy (Cognitive Domain: Pediatric Rehabilitation)	3	2	2	
O.T741	Biopsychosocial Aspects of Rehabilitation Sciences (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T743	Advanced Occupational Therapy for Mental Health Conditions (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T745	Topics in Geriatric Occupational Therapy (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T747	Health Promotion and Social Wellbeing (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T749	Behavioral Sciences and Applied Behavior Analysis (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	

Secondly: Specialization Requirements

Allocated to it (9 CHs) Compulsory as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T799A	Master Thesis	9	9	0	
O.T799B	Master Thesis	6	6	0	
O.T799C	Master Thesis	3	3	0	
O.T799D	Master Thesis	0	0	0	



Guidance Plan

First Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
O.T721 Theories of Occupational Therapy and Occupational Science	3	
O.T731 Scientific Research Methods	3	
O.T771 Advanced Management in Medical Sciences	2	
Total Hours	8	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
Department Elective Requisite	3	
O.T712 Advanced Educational Methods	1	
O.T732 Statistical Analysis in Health Sciences	3	
O.T734 Evidence-Based Practice in Occupational Therapy	2	
Total Hours	9	

Second Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
Department Elective Requisite	3	
O.T773 Community-Based Occupational Therapy	2	
O.T781 Clinical Placement in Occupational Therapy (1)	3	
Total Hours	8	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
O.T799a Master Thesis	9	
Total Hours	9	



Description of Courses

O.T712: Advanced Educational Methods (1 CHs)

Prerequisite: None

This course is designed to immerse students in the practice of designing and delivering educational material in an inter-professional context. It will empower students to enhance the student's role as a clinician and educator by focusing on effective professional communication and customized learning strategies.

During this course, students will:

- Practice designing and teaching in various environments, catering to different individuals, including students, patients, community members, and staff.
- Master the use of Information and Communication Technologies (ICT) and Open Educational Resources (OER) for creating and delivering educational content.
- Build a comprehensive course portfolio, including lectures, exams, assignments, rubrics, and syllabi.
- Learn and apply educational quality assurance techniques, ensuring learning outcomes are met, gathering student feedback, and analyzing exams.

O.T721: Theories of Occupational Therapy and Occupational Science (3 CHs)

Prerequisite: None

This course delves into the foundational theories and concepts that underpin the practice of occupational therapy and the study of occupational science. It is designed to provide students with a comprehensive understanding of the key theoretical frameworks that inform contemporary practice and research in the field.

During this course, students will:

- Explore the historical development and evolution of occupational therapy theories.
- Gain insight into the core concepts and principles of occupational science.
- Analyze and critique various theoretical models and their application to clinical practice.
- Understand the interrelationship between theory, research, and practice in occupational therapy.
- Apply theoretical knowledge to real-world scenarios and case studies.

By the end of this course, students will have a solid grasp of the theoretical foundations that guide occupational therapy practice, enhancing the students ability to think critically and apply evidence-based approaches in students professional work.

O.T731: Scientific Research Methods (3 CHs)

Prerequisite: None

This course aims to advance student's knowledge of occupational therapy and rehabilitation research design and research methods, and to master the essential research methods and tools needed to advance practice and contribute to the body of knowledge. Through critical analysis and practical application, students will deepen their understanding of research design and methodologies in occupational therapy and rehabilitation sciences.

During this course, students will:

- Explore and critique research methodologies commonly used in rehabilitation practice.
- Develop skills in conducting systematic literature reviews and critical appraisals.
- Gain proficiency in analyzing quantitative and qualitative data.
- Learn to formulate and design impactful research questions and studies.

**O.T732: Statistical Analysis in Health Sciences (3 CHs)****Prerequisite: None**

This course is designed to equip students with the essential skills needed to translate scientific questions into well-defined hypotheses and apply the appropriate statistical methods for their research. Students will learn to develop comprehensive analysis plans, interpret and critique research data from published literature, and evaluate the significance and impact of public health research and interventions.

During this course, students will:

- Develop the ability to translate scientific questions into testable hypotheses.
- Master the selection and application of statistical methods suitable for various research scenarios.
- Create detailed analysis plans to guide students research projects.
- Interpret and critique data from existing research to inform students own work.
- Evaluate the significance and impact of public health research and interventions.

O.T734: Evidence-Based Practice in Occupational Therapy (2 CHs)**Prerequisite: None**

This course is dedicated to empowering students with the skills necessary to critically evaluate scientific information and integrate the best available evidence into occupational therapy and clinical interdisciplinary practice. Emphasizing the importance of lifelong learning and the use of current evidence, this course enhances students ability to make informed clinical decisions and provide high-quality care.

During this course, students will:

- Understand the principles and importance of evidence-based practice in occupational therapy.
- Develop skills to critically appraise research literature and apply findings to clinical practice.
- Learn to formulate clinical questions and search for relevant research evidence.
- Apply clinical reasoning in evaluation, designing treatment plans, and implementing plans of care.
- Explore various research methodologies and their applications in occupational therapy.
- Practice integrating evidence-based principles through case studies and real-world scenarios.

By the end of this course, students will be well-prepared to incorporate evidence-based practice into occupational therapy interventions, ensuring that students clinical decisions are informed by the best available evidence and contribute to positive outcomes for clients.

O.T741: Biopsychosocial Aspects of Rehabilitation Sciences (3 CHs)**Prerequisite: None**

This course provides a comprehensive foundation for understanding the biological, psychological, and social factors that influence disease progression and severity. It offers students approaches to enhance the success of rehabilitation through a comprehensive and holistic methodology.

During this course, students will:

- Explore the interplay between biological, psychological, and social determinants of health.
- Analyze how these factors affect the progression and severity of diseases.
- Learn about holistic and integrative approaches to rehabilitation that consider the whole person.
- Develop skills to assess and address the biopsychosocial needs of patients.
- Apply evidence-based practices to design and implement effective rehabilitation programs.
- Collaborate with interdisciplinary teams to deliver comprehensive care.

By the end of this course, students will have a robust understanding of the biopsychosocial aspects of rehabilitation, enabling students to apply a holistic approach to improve patient outcomes and overall well-being.



O.T743: Advanced Occupational Therapy for Mental Health Conditions (3 CHs)

Prerequisite: None

This advanced course provides an in-depth exploration of occupational therapy services within mental health practice. Students will examine a wide range of topics related to service provision across various settings, including inpatient acute care, intensive partial hospitalization programs, criminal justice and reintegration, community models, and private practice.

During this course, students will:

- Gain a comprehensive understanding of mental health conditions and their impact on occupational performance.
- Learn advanced strategies for evaluating and addressing the occupational needs of individuals with mental health conditions.
- Explore the unique challenges and opportunities of providing occupational therapy in diverse settings, including inpatient acute care, intensive partial hospitalization programs, criminal justice systems, reintegration programs, community models, and private practice.
- Develop skills in designing and implementing effective, client-centered intervention plans tailored to the needs of individuals with mental health conditions.
- Analyze current research and evidence-based practices to enhance students clinical decision-making and treatment outcomes.

By the end of this course, students will be well-prepared to deliver high-quality occupational therapy services in various mental health settings, contributing to the well-being and recovery of clients.

O.T745: Topics in Geriatric Occupational Therapy (3 CHs)

Prerequisite: None

This course offers advanced knowledge of the physical, psychological, and behavioral aspects of aging, providing an in-depth understanding of the normal and pathological changes that occur with aging. It focuses on treatment options for elderly patients in occupational therapy and rehabilitation centers, addressing the multidimensional concerns of elderly patients.

During this course, students will:

- Explore the physiological, psychological, and behavioral changes associated with aging.
- Understand the differences between normal aging processes and pathological conditions in the elderly.
- Learn about advanced treatment options and interventions for elderly patients in various settings, including occupational therapy and rehabilitation centers.
- Focus on the holistic and multidimensional needs of elderly patients, ensuring a comprehensive approach to care.
- Engage in discussions and case studies to enhance students understanding of geriatric occupational therapy.
- Apply evidence-based practices to design effective intervention plans tailored to the unique needs of elderly clients.

By the end of this course, students will be well-prepared to address the complex needs of elderly patients, providing high-quality and compassionate care in the field of geriatric occupational therapy.



O.T747: Health Promotion and Social Wellbeing (3 CHs)

Prerequisite: None

The aim of this course is to deepen students' understanding of various health promotion models and enable them to describe a holistic definition of the biopsychosocial determinants of health. Students will gain knowledge of working environment legislation, theories and methods of interventions in health promotion for individuals and groups, and the risks associated with the working environment. Additionally, students will learn to apply health promotion approaches in interdisciplinary rehabilitation settings.

During this course, students will:

- Explore various health promotion models and their applications.
- Describe the biopsychosocial determinants of health from a holistic perspective.
- Understand working environment legislation and its impact on health promotion.
- Gain knowledge of theories and methods of interventions in health promotion for both individuals and groups.
- Identify and assess risks associated with different working environments.
- Apply health promotion approaches within interdisciplinary rehabilitation settings.
- Develop skills in planning and implementing health promotion initiatives.

By the end of this course, students will be well-equipped to promote health and social wellbeing, ensuring the application of comprehensive health promotion strategies in diverse settings.

O.T749: Behavioral Sciences and Applied Behavior Analysis (3 CHs)

Prerequisite: None

This course enables students to explore the basis of human behavior and communication with an emphasis on practical application. Students will delve into topics such as elementary verbal and non-verbal skills, the ways in which behavior is established, the relevance of listener behavior, and the organization of human behavior.

During this course, students will:

- Understand the fundamental principles of human behavior and communication.
- Examine elementary verbal and non-verbal skills and their significance in behavior.
- Learn about the processes involved in establishing behavior.
- Analyze the role and impact of listener behavior on communication and interaction.
- Explore the organization and patterns of human behavior in various contexts.
- Apply theories and methods of behavior analysis to real-world scenarios.

By the end of this course, students will have a comprehensive understanding of behavioral sciences and applied behavior analysis, equipping students with the tools to effectively analyze and influence human behavior in a variety of settings.



O.T752: Advanced Pediatric Occupational Therapy (3 CHs)

Prerequisite: None

This course builds upon developmental concepts related to pediatric occupational therapy practice. The focus of this course will encompass advanced principles of assessment and intervention planning for various pediatric conditions within the scope of occupational therapy practice in different pediatric settings.

During this course, students will:

- Deepen students understanding of developmental concepts relevant to pediatric occupational therapy.
- Learn advanced assessment techniques for identifying and evaluating pediatric conditions.
- Develop skills in intervention planning tailored to the unique needs of pediatric clients.
- Explore evidence-based practices for implementing effective therapeutic interventions in different pediatric settings.
- Engage in case studies and practical applications to enhance students clinical reasoning and problem-solving abilities.
- Collaborate with interdisciplinary teams to provide comprehensive care and support to pediatric clients and their families.

By the end of this course, students will be equipped with the knowledge and skills to provide advanced occupational therapy services to children, contributing to their development and overall well-being.

O.T754: Rehabilitation of Children with Pervasive Developmental Disorders (3 CHs)

Prerequisite: None

The aim of this course is to prepare students to promote understanding of the situations and needs of children with Pervasive Developmental Disorders (PDD) and to perform a vital role in the personal, environmental, and educational adjustment of individuals with disabilities within a self-advocacy and community development model.

During this course, students will:

- Gain a comprehensive understanding of the unique challenges faced by children with Pervasive Developmental Disorders.
- Learn to assess and address the personal, environmental, and educational needs of individuals with PDD.
- Develop skills in promoting self-advocacy and community development for individuals with disabilities.
- Explore evidence-based interventions and rehabilitation strategies tailored to children with PDD.
- Collaborate with interdisciplinary teams to create inclusive and supportive environments.
- Prepare for a professional career in rehabilitation counseling with a focus on PDD.

By the end of this course, students will be equipped with the knowledge and skills to effectively support children with Pervasive Developmental Disorders and contribute to their overall well-being and integration into the community.



O.T756: Sensory Processing and Integration in Occupational Therapy (3 CHs)

Prerequisite: None

This course addresses advanced concepts of Sensory Processing (SP) and Sensory Integration (SI) in occupational therapy practice. Students will develop advanced skills and expertise in identifying sensory processing disorders and using sensory integration treatments to address various childhood problems. This course enables students to explore the latest research advancements in SI and SP and incorporate these findings into clinical practice.

During this course, students will:

- Develop advanced skills in identifying and assessing sensory processing disorders.
- Gain expertise in using sensory integration treatments to address various childhood problems.
- Explore the latest research advancements in sensory processing and integration.
- Apply evidence-based practices in clinical settings to support children with sensory processing disorders.
- Integrate knowledge into research, advocacy, and education to promote best practices in sensory integration.
- Collaborate with interdisciplinary teams to enhance treatment outcomes and support holistic care.

By the end of this course, students will be well-prepared to apply advanced concepts of sensory processing and integration in students clinical practice, contributing to improved outcomes for children with sensory processing disorders.

O.T760: Introduction to Assistive Technology (3 CHs)

Prerequisite: None

This course aims to develop essential skills for working with people with disabilities through this comprehensive introduction to assistive technology. It will provide students with the foundational principles and practical application strategies needed to evaluate and implement assistive technologies effectively.

During this course, students will:

- Learn the principles of assistive technology application and the skills required for professional practice.
- Explore a wide range of assistive technologies and rehabilitation topics, focusing on the human-technology interface.
- Develop the ability to evaluate products and strategies for their use, ensuring successful implementation.
- Apply the principles and strategies learned in this course to other practice-related, disability, and design courses.
- For occupational therapy students, prepare for clinical placement by building a strong foundation in assessment and intervention using assistive technology.

By the end of this course, students will be equipped with the knowledge and skills to integrate assistive technology into various professional practices, enhancing the quality of life for individuals with disabilities.



O.T762: Advanced Occupational Therapy for Neurological Disorders (3 CHs)

Prerequisite: None

This course is designed to provide in-depth knowledge and practical skills, and covers a range of topics essential for effective occupational therapy intervention and treatment of individuals with neurological conditions.

During this course, students will:

- Understand the occupational impact associated with various neurological conditions, including acquired brain injury and cerebral-vascular accident.
- Explore practice-based evidence for neurological interventions and develop targeted outcomes through effective action plans.
- Apply different theoretical frameworks to address challenges in occupational performance across various stages of the client pathway.
- Gain skills in advanced assessment techniques and evidence-based intervention methods.
- Learn strategies and techniques to enhance occupational performance, tailored to different theoretical approaches.
- Develop teamwork skills, understanding the roles and relationships of clients and carers in collaborative settings.

By the end of this course, students will be well-equipped with the knowledge and skills needed to support individuals with neurological disorders, ensuring they achieve their highest potential in daily living and participation.

O.T764: Advanced Theories in Motor Control and Learning (3 CHs)

Prerequisite: None

This advanced course delves into the intricate physiological, neurological, and psychological factors that govern the control of voluntary movement and the learning of motor skills. It provides a comprehensive understanding of how these factors change across the lifespan and in response to pathology, with a particular focus on the effects of brain damage.

During this course, students will:

- Explore the development and control of movement, emphasizing the concepts of neuroplasticity and the effects of practice.
- Examine changes in motor control and learning due to aging and various pathological conditions.
- Discuss the interplay between different theories and scientific knowledge in motor control and motor learning.
- Understand how these advanced theories apply to the practice of occupational therapy, enhancing students ability to design effective intervention strategies.
- Gain insights into the latest research and advancements in the field of motor control and learning.

By the end of this course, students will have a thorough understanding of the advanced theories in motor control and learning, equipping students with the knowledge to apply these concepts to clinical practice in occupational therapy.



O.T766: Advanced Methods in Hand Rehabilitation (3 CHs)

Prerequisite: None

This course offers an in-depth review of the evaluation and intervention processes for typical diagnoses of upper extremity and hand rehabilitation, with a particular focus on clinical reasoning, case discussions, and evidence-based practice.

During this course, students will:

- Gain a thorough understanding of advanced evaluation techniques and intervention strategies for upper extremity conditions.
- Develop advanced skills in splinting, including the design, fabrication, and application of custom splints for various hand conditions.
- Engage in clinical reasoning exercises and case discussions to enhance students decision-making skills.
- Apply evidence-based practice principles to real-world scenarios, ensuring effective and informed treatment plans.
- Participate in active learning experiences designed to facilitate the retention and application of hand therapy principles.
- Follow a structured study approach that supports students mastery of upper extremity rehabilitation.

By the end of this course, students will be equipped with the skills and knowledge to excel in hand rehabilitation, providing high-quality care and achieving optimal outcomes for students clients.

O.T768: Advanced Occupational Therapy for Orthopedic Conditions (3 CHs)

Prerequisite: None

This advanced course delves into the complexities of biomechanical and orthopedic conditions in adult clients. Designed to equip students with specialized knowledge and practical skills, this course emphasizes the evaluation and intervention methods essential for effective occupational therapy practice.

During this course, students will:

- Explore a range of biomechanical and orthopedic conditions that may require occupational therapy.
- Analyze the impact of upper limb deficits on movement, occupational performance, and participation.
- Learn and practice both observational and standardized assessments.
- Utilize simulation to enhance skills in evaluation, patient handling, and intervention techniques.
- Apply principles of ergonomics to prevention, health, and wellness interventions.
- Focus on the occupational participation of individuals at risk for, or living with, chronic biomechanical and orthopedic impairments.

By the end of this course, students will have a comprehensive understanding of advanced occupational therapy practices for orthopedic conditions, enabling students to provide high-quality care and support to clients.



O.T769: Special Topics in Occupational Therapy (3 CHs)

Prerequisite: None

This course delves into selected topics in the field of Occupational Therapy, tailored to the professional interests and medical experiences of the students. Each offering of the course will address diverse and specialized topics, which will be announced prior to the start of the course. The focus will be on conditions that fall within the specialty of occupational therapy and are not covered in other courses.

During this course, students will:

- Explore a variety of special topics relevant to current trends and advancements in occupational therapy.
- Analyze and discuss these topics using scientific evidence for effective planning, assessment, treatment implementation, and outcome evaluation.
- Engage in critical thinking and evidence-based practice to address unique and complex occupational therapy scenarios.
- Enhance knowledge and skills in areas not typically covered in standard coursework, broadening students expertise and professional competence.

By the end of this course, students will have a deeper understanding of specialized topics in occupational therapy, enabling students to apply this knowledge to students clinical practice and contribute to the advancement of the field.

O.T771: Advanced Management in Medical Sciences (2 CHs)

Prerequisite: None

This advanced course will take students understanding of management and health administration to the next level. The course is designed to prepare students for leadership roles in rehabilitation settings. This course will provide students with the tools to make informed, ethical, and effective managerial decisions.

During this course, students will:

- Gain a deep understanding of advanced management theories and practices within healthcare.
- Learn to navigate complex administrative scenarios and implement efficient solutions.
- Develop leadership skills and build strong, interdisciplinary teams to achieve success in rehabilitation environments.

O.T773: Community-Based Occupational Therapy (2 CHs)

Prerequisite: None

This course provides a unique opportunity to practice and enhance skills in promoting and increasing awareness of rehabilitation professional services within the community. Students will develop the ability to conduct need assessments, design, implement, and monitor intervention plans for the inclusive development of vulnerable groups in the community.

During this course, students will:

- Gain hands-on experience in promoting and increasing awareness of rehabilitation services to the community.
- Demonstrate skills in conducting need assessments for access to services for vulnerable populations.
- Learn to design, implement, and monitor effective intervention plans for community development.
- Explore various community-based intervention strategies and programs.
- Collaborate with community organizations and stakeholders to address the occupational needs of individuals and groups.
- Examine the social, cultural, and economic factors influencing community health and occupational performance.

By the end of this course, students will be equipped with the knowledge and skills to implement effective community-based occupational therapy interventions, promoting health, well-being, and participation in meaningful activities for individuals and communities.

**O.T781: Clinical Placement in Occupational Therapy (1) (3 CHs)****Prerequisite: None**

This course offers a valuable clinical fieldwork experience designed to enhance students' knowledge, skills, and attitudes in occupational therapy within an interdisciplinary context. Through this course, students will have the opportunity to integrate advanced knowledge and skills into clinical practice, applying clinical models to design rehabilitation programs and practicing holistic, client-centered models in patient management.

During this course, students will:

- Gain hands-on experience in a clinical setting, working alongside experienced professionals.
- Apply advanced knowledge and skills learned in the classroom to real-world clinical scenarios.
- Design and implement rehabilitation programs using evidence-based clinical models.
- Practice holistic and client-centered approaches to patient management, ensuring individualized care.
- Collaborate with interdisciplinary teams to enhance patient outcomes and learn from diverse perspectives.

By the end of this course, students will have developed the competence and confidence needed to excel in clinical practice, providing high-quality care and support clients in the field of occupational therapy.

O.T799A: Master Thesis (9 CHs)**Prerequisite: None**

The Master Thesis course is a culminating academic experience designed to demonstrate the student's ability to conduct independent research and contribute to the body of knowledge in students field. This course will draw on the knowledge and skills obtained within research methods and design, and applied biostatistics. Under the supervision of a faculty member, students will undertake a novel research project in a chosen area of occupational therapy.

O.T799B: Master Thesis (6 CHs)**Prerequisite: None**

The Master Thesis course is a culminating academic experience designed to demonstrate the students ability to conduct independent research and contribute to the body of knowledge in students field. This course will draw on the knowledge and skills obtained within research methods and design, and applied biostatistics. Under the supervision of a faculty member, students will undertake a novel research project in a chosen area of occupational therapy.

O.T799C: Master Thesis (3 CHs)**Prerequisite: None**

The Master Thesis course is a culminating academic experience designed to demonstrate the students ability to conduct independent research and contribute to the body of knowledge in students field. This course will draw on the knowledge and skills obtained within research methods and design, and applied biostatistics. Under the supervision of a faculty member, students will undertake a novel research project in a chosen area of occupational therapy.

O.T799D: Master Thesis (0 CHs)**Prerequisite: None**

The Master Thesis course is a culminating academic experience designed to demonstrate the students ability to conduct independent research and contribute to the body of knowledge in students field. This course will draw on the knowledge and skills obtained within research methods and design, and applied biostatistics. Under the supervision of a faculty member, students will undertake a novel research project in a chosen area of occupational therapy.



**JORDAN UNIVERSITY of SCIENCE &
TECHNOLOGY**

FACULTY OF APPLIED MEDICAL SCIENCES

CURRICULUM FOR THE MASTER'S DEGREE

IN

OCCUPATIONAL THERAPY

COMPREHENSIVE TRACK

2025



About the Program

The Master of Science program in Occupational Therapy was established in 2024 at Jordan University of Science and Technology to prepare qualified professionals with the latest developments in field of occupational therapy, and to meet the needs of the local and international market for graduates with a high level of scientific and research competence. The Faculty of Applied Medical Sciences, through the Department of Rehabilitation Sciences, offers the Master of Science program in Occupational Therapy, which includes 34 credit hours distributed over two academic years. The program includes both thesis and comprehensive tracks, with three specialization areas (i.e., Physical dysfunctions, pediatric rehabilitation, and psychosocial rehabilitation), which allows enrolled students to focus on a particular field of occupational therapy. This program, which is the first of its kind in Jordan, aims to equip graduates with scientific, clinical, and research skills that prepares them to join doctoral programs, and to enhance their value of self-learning, critical thinking, and creativity in occupational therapy.

Vision

To achieve leadership at the local and regional level in education, training and scientific research in the field of occupational therapy and rehabilitation sciences and to prepare qualified graduates with scientific and practical expertise to meet the needs of the labor market.

Mission

To develop and disseminate scientific knowledge and build practical experience in the field of occupational therapy and rehabilitation sciences in accordance with the university strategy and international quality standards, and contribute to the development of human resources for the needs of scientific development and building the scientific community and scientific research in the field of rehabilitation sciences.

Objectives

- Preparing qualified professionals who are up-to-date with the latest technological advancements in occupational therapy.
- Training occupational therapist to work in the academic field and to conduct scientific research.
- Building local and international partnerships in the field of scientific research in occupational therapy.
- Promoting the value of self-learning, critical thinking and creativity in the specialized fields of occupational therapy practice.
- Developing the ability of therapists to practice evidence-based occupational therapy.
- Stimulating scientific research in the field of occupational therapy, where Master's program affiliates can address clinical practice problems.
- Equipping graduates with scientific and research skills that enable them to enroll in doctoral programs after graduation

Outcomes

1. Obtain and utilize advanced knowledge in occupational therapy with emphasis on specialized areas of practice like the rehabilitation of cases with physical dysfunction, pediatric conditions, and biopsychosocial problems.
2. Use creative thinking, problem solving, teamwork, and effective communication skills in addressing practice issues and analyzing clinical cases within an interdisciplinary.
3. Acquire knowledge of innovative approaches and emerging technologies to optimize the process and outcomes of rehabilitation in occupational therapy practice and research.
4. Demonstrate the ability to apply advanced skills in screening and assessment to determine the need for occupational therapy intervention taking into consideration the client needs and other related contextual factors.
5. Design and implement innovative occupation-based interventions to address various deficits that may affect occupational performance.
6. Integrate evidence-based knowledge into occupational therapy practice and advocate for interdisciplinary



healthcare services to promote better networking, and comprehensive client care.

7. Explore ambiguous and complex clinical cases through strategic problem-solving, adaptability, and resilience in decision-making for optimal care delivery.

8. Adopt an approach of self-directed learning and continuous professional development to enhance acquisition of theoretical knowledge and clinical skills

9. Demonstrate leadership and accountability in fostering interdisciplinary collaboration to improve patient care delivery.

10. Contribute to the development of vocational knowledge and sharing expertise within the professional community of occupational therapy.

11. Assess team dynamic and performance while implementing strategies for enhancing care quality in occupational therapy practice.



Study Plan of The Master's Degree in OCCUPATIONAL THERAPY

The Master's Degree in OCCUPATIONAL THERAPY is awarded by the Faculty of Graduate Studies at Jordan University of Science and Technology (JUST) upon the fulfillment of JUST running Master's degree regulations and the Successful completion of 34 credit hours as follows:

Requirements	Credit Hours		
	Compulsory Hours	Elective Hours	Total
Department Requirements	25	9	34
Specialization Requirements	0	0	0
Total	25	9	34

Curriculum for Master degree in OCCUPATIONAL THERAPY 2024-2025

جامعة العلوم والتكنولوجيا الأردنية
كلية العلوم الطبية التطبيقية



Jordan University of Science & Technology
FACULTY OF APPLIED MEDICAL
SCIENCES



Firstly: Department Requirements

Allocated to it (34 CHs) distributed as follows:

a. Compulsory Requirements (25 CHs) as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T712	Advanced Educational Methods	1	1	1	
O.T721	Theories of Occupational Therapy and Occupational Science	3	2	2	
O.T731	Scientific Research Methods	3	2	2	
O.T732	Statistical Analysis in Health Sciences	3	2	2	
O.T734	Evidence-Based Practice in Occupational Therapy	2	2	1	
O.T760	Introduction to Assistive Technology	3	2	2	
O.T771	Advanced Management in Medical Sciences	2	2	1	
O.T773	Community-Based Occupational Therapy	2	1	1	
O.T781	Clinical Placement in Occupational Therapy (1)	3	1	6	
O.T782	Clinical Placement in Occupational Therapy (2)	3	1	6	

b. Elective Requirements (9 CHs) as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T762	Advanced Occupational Therapy for Neurological Disorders (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T764	Advanced Theories in Motor Control and Learning (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T766	Advanced Methods in Hand Rehabilitation (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T768	Advanced Occupational Therapy for Orthopedic Conditions (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T769	Special Topics in Occupational Therapy (Cognitive Domain: Physical Rehabilitation)	3	2	2	
O.T752	Advanced Pediatric Occupational Therapy (Cognitive Domain: Pediatric Rehabilitation)	3	2	2	



Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T754	Rehabilitaion of Children with Pervasive Developmental Disorders (Cognitive Domain: Pediatric Rehabilitation)	3	2	2	
O.T756	Sensory Processing and Integration in Occupational Therapy (Cognitive Domain: Pediatric Rehabilitation)	3	2	2	
O.T741	Biopsychosocial Aspects of Rehabilitation Sciences (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T743	Advanced Occupational Therapy for Mental Health Conditions (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T745	Topics in Geriatric Occupational Therapy (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T747	Health Promotion and Social Wellbeing (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	
O.T749	Behavioral Sciences and Applied Behavior Analysis (Cognitive Domain: Psychosocial Rehabilitation)	3	2	2	

Secondly: Specialization Requirements

Allocated to it (0 CHs) Elective as shown in the following table:

Course Number	Course Title	Credit Hours	Hrs Distribution		Prerequisite/Concurrent
			Theoritic	Lab	
O.T798	Comprehensive Exam	0	0	0	



Guidance Plan

First Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
O.T721 Theories of Occupational Therapy and Occupational Science	3	
O.T731 Scientific Research Methods	3	
O.T771 Advanced Management in Medical Sciences	2	
Total Hours	8	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
Department Elective Requisite	3	
O.T712 Advanced Educational Methods	1	
O.T732 Statistical Analysis in Health Sciences	3	
O.T734 Evidence-Based Practice in Occupational Therapy	2	
Total Hours	9	



Second Year

First Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
Department Elective Requisite	3	
O.T773 Community-Based Occupational Therapy	2	
O.T781 Clinical Placement in Occupational Therapy (1)	3	
Total Hours	8	

Second Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
Department Elective Requisite	3	
O.T760 Introduction to Assistive Technology	3	
O.T782 Clinical Placement in Occupational Therapy (2)	3	
Total Hours	9	

Summer Semester

Course Number & Title	Credit Hours	Prerequisite/Concurrent
O.T798 Comprehensive Exam	0	
Total Hours	0	



Description of Courses

O.T712: Advanced Educational Methods (1 CHs)

Prerequisite: None

This course is designed to immerse students in the practice of designing and delivering educational material in an inter-professional context. It will empower students to enhance the student's role as a clinician and educator by focusing on effective professional communication and customized learning strategies.

During this course, students will:

- Practice designing and teaching in various environments, catering to different individuals, including students, patients, community members, and staff.
- Master the use of Information and Communication Technologies (ICT) and Open Educational Resources (OER) for creating and delivering educational content.
- Build a comprehensive course portfolio, including lectures, exams, assignments, rubrics, and syllabi.
- Learn and apply educational quality assurance techniques, ensuring learning outcomes are met, gathering student feedback, and analyzing exams.

O.T721: Theories of Occupational Therapy and Occupational Science (3 CHs)

Prerequisite: None

This course delves into the foundational theories and concepts that underpin the practice of occupational therapy and the study of occupational science. It is designed to provide students with a comprehensive understanding of the key theoretical frameworks that inform contemporary practice and research in the field.

During this course, students will:

- Explore the historical development and evolution of occupational therapy theories.
- Gain insight into the core concepts and principles of occupational science.
- Analyze and critique various theoretical models and their application to clinical practice.
- Understand the interrelationship between theory, research, and practice in occupational therapy.
- Apply theoretical knowledge to real-world scenarios and case studies.

By the end of this course, students will have a solid grasp of the theoretical foundations that guide occupational therapy practice, enhancing the students ability to think critically and apply evidence-based approaches in students professional work.

O.T731: Scientific Research Methods (3 CHs)

Prerequisite: None

This course aims to advance student's knowledge of occupational therapy and rehabilitation research design and research methods, and to master the essential research methods and tools needed to advance practice and contribute to the body of knowledge. Through critical analysis and practical application, students will deepen their understanding of research design and methodologies in occupational therapy and rehabilitation sciences.

During this course, students will:

- Explore and critique research methodologies commonly used in rehabilitation practice.
- Develop skills in conducting systematic literature reviews and critical appraisals.
- Gain proficiency in analyzing quantitative and qualitative data.
- Learn to formulate and design impactful research questions and studies.

**O.T732: Statistical Analysis in Health Sciences (3 CHs)****Prerequisite: None**

This course is designed to equip students with the essential skills needed to translate scientific questions into well-defined hypotheses and apply the appropriate statistical methods for their research. Students will learn to develop comprehensive analysis plans, interpret and critique research data from published literature, and evaluate the significance and impact of public health research and interventions.

During this course, students will:

- Develop the ability to translate scientific questions into testable hypotheses.
- Master the selection and application of statistical methods suitable for various research scenarios.
- Create detailed analysis plans to guide students research projects.
- Interpret and critique data from existing research to inform students own work.
- Evaluate the significance and impact of public health research and interventions.

O.T734: Evidence-Based Practice in Occupational Therapy (2 CHs)**Prerequisite: None**

This course is dedicated to empowering students with the skills necessary to critically evaluate scientific information and integrate the best available evidence into occupational therapy and clinical interdisciplinary practice. Emphasizing the importance of lifelong learning and the use of current evidence, this course enhances students ability to make informed clinical decisions and provide high-quality care.

During this course, students will:

- Understand the principles and importance of evidence-based practice in occupational therapy.
- Develop skills to critically appraise research literature and apply findings to clinical practice.
- Learn to formulate clinical questions and search for relevant research evidence.
- Apply clinical reasoning in evaluation, designing treatment plans, and implementing plans of care.
- Explore various research methodologies and their applications in occupational therapy.
- Practice integrating evidence-based principles through case studies and real-world scenarios.

By the end of this course, students will be well-prepared to incorporate evidence-based practice into occupational therapy interventions, ensuring that students clinical decisions are informed by the best available evidence and contribute to positive outcomes for clients.

O.T741: Biopsychosocial Aspects of Rehabilitation Sciences (3 CHs)**Prerequisite: None**

This course provides a comprehensive foundation for understanding the biological, psychological, and social factors that influence disease progression and severity. It offers students approaches to enhance the success of rehabilitation through a comprehensive and holistic methodology.

During this course, students will:

- Explore the interplay between biological, psychological, and social determinants of health.
- Analyze how these factors affect the progression and severity of diseases.
- Learn about holistic and integrative approaches to rehabilitation that consider the whole person.
- Develop skills to assess and address the biopsychosocial needs of patients.
- Apply evidence-based practices to design and implement effective rehabilitation programs.
- Collaborate with interdisciplinary teams to deliver comprehensive care.

By the end of this course, students will have a robust understanding of the biopsychosocial aspects of rehabilitation, enabling students to apply a holistic approach to improve patient outcomes and overall well-being.



O.T743: Advanced Occupational Therapy for Mental Health Conditions (3 CHs)

Prerequisite: None

This advanced course provides an in-depth exploration of occupational therapy services within mental health practice. Students will examine a wide range of topics related to service provision across various settings, including inpatient acute care, intensive partial hospitalization programs, criminal justice and reintegration, community models, and private practice.

During this course, students will:

- Gain a comprehensive understanding of mental health conditions and their impact on occupational performance.
- Learn advanced strategies for evaluating and addressing the occupational needs of individuals with mental health conditions.
- Explore the unique challenges and opportunities of providing occupational therapy in diverse settings, including inpatient acute care, intensive partial hospitalization programs, criminal justice systems, reintegration programs, community models, and private practice.
- Develop skills in designing and implementing effective, client-centered intervention plans tailored to the needs of individuals with mental health conditions.
- Analyze current research and evidence-based practices to enhance students clinical decision-making and treatment outcomes.

By the end of this course, students will be well-prepared to deliver high-quality occupational therapy services in various mental health settings, contributing to the well-being and recovery of clients.

O.T745: Topics in Geriatric Occupational Therapy (3 CHs)

Prerequisite: None

This course offers advanced knowledge of the physical, psychological, and behavioral aspects of aging, providing an in-depth understanding of the normal and pathological changes that occur with aging. It focuses on treatment options for elderly patients in occupational therapy and rehabilitation centers, addressing the multidimensional concerns of elderly patients.

During this course, students will:

- Explore the physiological, psychological, and behavioral changes associated with aging.
- Understand the differences between normal aging processes and pathological conditions in the elderly.
- Learn about advanced treatment options and interventions for elderly patients in various settings, including occupational therapy and rehabilitation centers.
- Focus on the holistic and multidimensional needs of elderly patients, ensuring a comprehensive approach to care.
- Engage in discussions and case studies to enhance students understanding of geriatric occupational therapy.
- Apply evidence-based practices to design effective intervention plans tailored to the unique needs of elderly clients.

By the end of this course, students will be well-prepared to address the complex needs of elderly patients, providing high-quality and compassionate care in the field of geriatric occupational therapy.



O.T747: Health Promotion and Social Wellbeing (3 CHs)

Prerequisite: None

The aim of this course is to deepen students' understanding of various health promotion models and enable them to describe a holistic definition of the biopsychosocial determinants of health. Students will gain knowledge of working environment legislation, theories and methods of interventions in health promotion for individuals and groups, and the risks associated with the working environment. Additionally, students will learn to apply health promotion approaches in interdisciplinary rehabilitation settings.

During this course, students will:

- Explore various health promotion models and their applications.
- Describe the biopsychosocial determinants of health from a holistic perspective.
- Understand working environment legislation and its impact on health promotion.
- Gain knowledge of theories and methods of interventions in health promotion for both individuals and groups.
- Identify and assess risks associated with different working environments.
- Apply health promotion approaches within interdisciplinary rehabilitation settings.
- Develop skills in planning and implementing health promotion initiatives.

By the end of this course, students will be well-equipped to promote health and social wellbeing, ensuring the application of comprehensive health promotion strategies in diverse settings.

O.T749: Behavioral Sciences and Applied Behavior Analysis (3 CHs)

Prerequisite: None

This course enables students to explore the basis of human behavior and communication with an emphasis on practical application. Students will delve into topics such as elementary verbal and non-verbal skills, the ways in which behavior is established, the relevance of listener behavior, and the organization of human behavior.

During this course, students will:

- Understand the fundamental principles of human behavior and communication.
- Examine elementary verbal and non-verbal skills and their significance in behavior.
- Learn about the processes involved in establishing behavior.
- Analyze the role and impact of listener behavior on communication and interaction.
- Explore the organization and patterns of human behavior in various contexts.
- Apply theories and methods of behavior analysis to real-world scenarios.

By the end of this course, students will have a comprehensive understanding of behavioral sciences and applied behavior analysis, equipping students with the tools to effectively analyze and influence human behavior in a variety of settings.



O.T752: Advanced Pediatric Occupational Therapy (3 CHs)

Prerequisite: None

This course builds upon developmental concepts related to pediatric occupational therapy practice. The focus of this course will encompass advanced principles of assessment and intervention planning for various pediatric conditions within the scope of occupational therapy practice in different pediatric settings.

During this course, students will:

- Deepen students understanding of developmental concepts relevant to pediatric occupational therapy.
- Learn advanced assessment techniques for identifying and evaluating pediatric conditions.
- Develop skills in intervention planning tailored to the unique needs of pediatric clients.
- Explore evidence-based practices for implementing effective therapeutic interventions in different pediatric settings.
- Engage in case studies and practical applications to enhance students clinical reasoning and problem-solving abilities.
- Collaborate with interdisciplinary teams to provide comprehensive care and support to pediatric clients and their families.

By the end of this course, students will be equipped with the knowledge and skills to provide advanced occupational therapy services to children, contributing to their development and overall well-being.

O.T754: Rehabilitation of Children with Pervasive Developmental Disorders (3 CHs)

Prerequisite: None

The aim of this course is to prepare students to promote understanding of the situations and needs of children with Pervasive Developmental Disorders (PDD) and to perform a vital role in the personal, environmental, and educational adjustment of individuals with disabilities within a self-advocacy and community development model.

During this course, students will:

- Gain a comprehensive understanding of the unique challenges faced by children with Pervasive Developmental Disorders.
- Learn to assess and address the personal, environmental, and educational needs of individuals with PDD.
- Develop skills in promoting self-advocacy and community development for individuals with disabilities.
- Explore evidence-based interventions and rehabilitation strategies tailored to children with PDD.
- Collaborate with interdisciplinary teams to create inclusive and supportive environments.
- Prepare for a professional career in rehabilitation counseling with a focus on PDD.

By the end of this course, students will be equipped with the knowledge and skills to effectively support children with Pervasive Developmental Disorders and contribute to their overall well-being and integration into the community.



O.T756: Sensory Processing and Integration in Occupational Therapy (3 CHs)

Prerequisite: None

This course addresses advanced concepts of Sensory Processing (SP) and Sensory Integration (SI) in occupational therapy practice. Students will develop advanced skills and expertise in identifying sensory processing disorders and using sensory integration treatments to address various childhood problems. This course enables students to explore the latest research advancements in SI and SP and incorporate these findings into clinical practice.

During this course, students will:

- Develop advanced skills in identifying and assessing sensory processing disorders.
- Gain expertise in using sensory integration treatments to address various childhood problems.
- Explore the latest research advancements in sensory processing and integration.
- Apply evidence-based practices in clinical settings to support children with sensory processing disorders.
- Integrate knowledge into research, advocacy, and education to promote best practices in sensory integration.
- Collaborate with interdisciplinary teams to enhance treatment outcomes and support holistic care.

By the end of this course, students will be well-prepared to apply advanced concepts of sensory processing and integration in students clinical practice, contributing to improved outcomes for children with sensory processing disorders.

O.T760: Introduction to Assistive Technology (3 CHs)

Prerequisite: None

This course aims to develop essential skills for working with people with disabilities through this comprehensive introduction to assistive technology. It will provide students with the foundational principles and practical application strategies needed to evaluate and implement assistive technologies effectively.

During this course, students will:

- Learn the principles of assistive technology application and the skills required for professional practice.
- Explore a wide range of assistive technologies and rehabilitation topics, focusing on the human-technology interface.
- Develop the ability to evaluate products and strategies for their use, ensuring successful implementation.
- Apply the principles and strategies learned in this course to other practice-related, disability, and design courses.
- For occupational therapy students, prepare for clinical placement by building a strong foundation in assessment and intervention using assistive technology.

By the end of this course, students will be equipped with the knowledge and skills to integrate assistive technology into various professional practices, enhancing the quality of life for individuals with disabilities.



O.T762: Advanced Occupational Therapy for Neurological Disorders (3 CHs)

Prerequisite: None

This course is designed to provide in-depth knowledge and practical skills, and covers a range of topics essential for effective occupational therapy intervention and treatment of individuals with neurological conditions.

During this course, students will:

- Understand the occupational impact associated with various neurological conditions, including acquired brain injury and cerebral-vascular accident.
- Explore practice-based evidence for neurological interventions and develop targeted outcomes through effective action plans.
- Apply different theoretical frameworks to address challenges in occupational performance across various stages of the client pathway.
- Gain skills in advanced assessment techniques and evidence-based intervention methods.
- Learn strategies and techniques to enhance occupational performance, tailored to different theoretical approaches.
- Develop teamwork skills, understanding the roles and relationships of clients and carers in collaborative settings.

By the end of this course, students will be well-equipped with the knowledge and skills needed to support individuals with neurological disorders, ensuring they achieve their highest potential in daily living and participation.

O.T764: Advanced Theories in Motor Control and Learning (3 CHs)

Prerequisite: None

This advanced course delves into the intricate physiological, neurological, and psychological factors that govern the control of voluntary movement and the learning of motor skills. It provides a comprehensive understanding of how these factors change across the lifespan and in response to pathology, with a particular focus on the effects of brain damage.

During this course, students will:

- Explore the development and control of movement, emphasizing the concepts of neuroplasticity and the effects of practice.
- Examine changes in motor control and learning due to aging and various pathological conditions.
- Discuss the interplay between different theories and scientific knowledge in motor control and motor learning.
- Understand how these advanced theories apply to the practice of occupational therapy, enhancing students ability to design effective intervention strategies.
- Gain insights into the latest research and advancements in the field of motor control and learning.

By the end of this course, students will have a thorough understanding of the advanced theories in motor control and learning, equipping students with the knowledge to apply these concepts to clinical practice in occupational therapy.



O.T766: Advanced Methods in Hand Rehabilitation (3 CHs)

Prerequisite: None

This course offers an in-depth review of the evaluation and intervention processes for typical diagnoses of upper extremity and hand rehabilitation, with a particular focus on clinical reasoning, case discussions, and evidence-based practice.

During this course, students will:

- Gain a thorough understanding of advanced evaluation techniques and intervention strategies for upper extremity conditions.
- Develop advanced skills in splinting, including the design, fabrication, and application of custom splints for various hand conditions.
- Engage in clinical reasoning exercises and case discussions to enhance students decision-making skills.
- Apply evidence-based practice principles to real-world scenarios, ensuring effective and informed treatment plans.
- Participate in active learning experiences designed to facilitate the retention and application of hand therapy principles.
- Follow a structured study approach that supports students mastery of upper extremity rehabilitation.

By the end of this course, students will be equipped with the skills and knowledge to excel in hand rehabilitation, providing high-quality care and achieving optimal outcomes for students clients.

O.T768: Advanced Occupational Therapy for Orthopedic Conditions (3 CHs)

Prerequisite: None

This advanced course delves into the complexities of biomechanical and orthopedic conditions in adult clients. Designed to equip students with specialized knowledge and practical skills, this course emphasizes the evaluation and intervention methods essential for effective occupational therapy practice.

During this course, students will:

- Explore a range of biomechanical and orthopedic conditions that may require occupational therapy.
- Analyze the impact of upper limb deficits on movement, occupational performance, and participation.
- Learn and practice both observational and standardized assessments.
- Utilize simulation to enhance skills in evaluation, patient handling, and intervention techniques.
- Apply principles of ergonomics to prevention, health, and wellness interventions.
- Focus on the occupational participation of individuals at risk for, or living with, chronic biomechanical and orthopedic impairments.

By the end of this course, students will have a comprehensive understanding of advanced occupational therapy practices for orthopedic conditions, enabling students to provide high-quality care and support to clients.



O.T769: Special Topics in Occupational Therapy (3 CHs)

Prerequisite: None

This course delves into selected topics in the field of Occupational Therapy, tailored to the professional interests and medical experiences of the students. Each offering of the course will address diverse and specialized topics, which will be announced prior to the start of the course. The focus will be on conditions that fall within the specialty of occupational therapy and are not covered in other courses.

During this course, students will:

- Explore a variety of special topics relevant to current trends and advancements in occupational therapy.
- Analyze and discuss these topics using scientific evidence for effective planning, assessment, treatment implementation, and outcome evaluation.
- Engage in critical thinking and evidence-based practice to address unique and complex occupational therapy scenarios.
- Enhance knowledge and skills in areas not typically covered in standard coursework, broadening students expertise and professional competence.

By the end of this course, students will have a deeper understanding of specialized topics in occupational therapy, enabling students to apply this knowledge to students clinical practice and contribute to the advancement of the field.

O.T771: Advanced Management in Medical Sciences (2 CHs)

Prerequisite: None

This advanced course will take students understanding of management and health administration to the next level. The course is designed to prepare students for leadership roles in rehabilitation settings. This course will provide students with the tools to make informed, ethical, and effective managerial decisions.

During this course, students will:

- Gain a deep understanding of advanced management theories and practices within healthcare.
- Learn to navigate complex administrative scenarios and implement efficient solutions.
- Develop leadership skills and build strong, interdisciplinary teams to achieve success in rehabilitation environments.

O.T773: Community-Based Occupational Therapy (2 CHs)

Prerequisite: None

This course provides a unique opportunity to practice and enhance skills in promoting and increasing awareness of rehabilitation professional services within the community. Students will develop the ability to conduct need assessments, design, implement, and monitor intervention plans for the inclusive development of vulnerable groups in the community.

During this course, students will:

- Gain hands-on experience in promoting and increasing awareness of rehabilitation services to the community.
- Demonstrate skills in conducting need assessments for access to services for vulnerable populations.
- Learn to design, implement, and monitor effective intervention plans for community development.
- Explore various community-based intervention strategies and programs.
- Collaborate with community organizations and stakeholders to address the occupational needs of individuals and groups.
- Examine the social, cultural, and economic factors influencing community health and occupational performance.

By the end of this course, students will be equipped with the knowledge and skills to implement effective community-based occupational therapy interventions, promoting health, well-being, and participation in meaningful activities for individuals and communities.

**O.T781: Clinical Placement in Occupational Therapy (1) (3 CHs)****Prerequisite: None**

This course offers a valuable clinical fieldwork experience designed to enhance students' knowledge, skills, and attitudes in occupational therapy within an interdisciplinary context. Through this course, students will have the opportunity to integrate advanced knowledge and skills into clinical practice, applying clinical models to design rehabilitation programs and practicing holistic, client-centered models in patient management.

During this course, students will:

- Gain hands-on experience in a clinical setting, working alongside experienced professionals.
- Apply advanced knowledge and skills learned in the classroom to real-world clinical scenarios.
- Design and implement rehabilitation programs using evidence-based clinical models.
- Practice holistic and client-centered approaches to patient management, ensuring individualized care.
- Collaborate with interdisciplinary teams to enhance patient outcomes and learn from diverse perspectives.

By the end of this course, students will have developed the competence and confidence needed to excel in clinical practice, providing high-quality care and support clients in the field of occupational therapy.

O.T782: Clinical Placement in Occupational Therapy (2) (3 CHs)**Prerequisite: None**

Building on the foundational experiences of Clinical Placement I, this second-level course offers an advanced clinical fieldwork opportunity designed to further enhance students' knowledge, skills, and attitudes in their respective occupational therapy field of specialization within an interdisciplinary context. Students will continue to integrate advanced knowledge and skills into clinical practice, applying clinical models to design comprehensive rehabilitation programs and practicing holistic, client-centered approaches in patient management.

During this course, students will:

- Gain deeper hands-on experience in a clinical setting, working alongside experienced professionals.
- Apply advanced knowledge and skills to more complex clinical scenarios.
- Design and implement comprehensive rehabilitation programs using sophisticated clinical models.
- Continue practicing holistic and client-centered approaches, ensuring individualized and effective care.
- Collaborate with interdisciplinary teams to enhance patient outcomes, learning from diverse perspectives and advanced practices.

By the end of this course, students will have achieved a higher level of competence and confidence, preparing students for advanced clinical practice and enabling students to provide high-quality care and support to clients.

O.T798: Comprehensive Exam (0 CHs)**Prerequisite: None**

The Comprehensive Exam is a critical requirement for master's students, designed to assess their mastery of the subject matter and their ability to integrate and apply the knowledge gained throughout their academic journey. This examination is based on the studied courses, ensuring a thorough evaluation of their understanding and readiness to advance in their field.