

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

<b>Course name</b>	Dermatology
<b>Course number</b>	MDCN4231
<b>Faculty</b>	
<b>Department</b>	
<b>Course type</b>	Major Needs
<b>Course level</b>	4
<b>Credit hours (theoretical)</b>	2
<b>Credit hours (practical)</b>	0
<b>Course Prerequisites</b>	

Course Objectives

- 1 - Understand the Anatomy and Physiology of the Skin: Students should develop a comprehensive understanding of the structure, function, and biology of the skin, including its layers, appendages, and immunological properties
- 2 - Identify and Diagnose Dermatological Conditions: Students should learn to recognize and diagnose common dermatological conditions, including infectious, inflammatory, neoplastic, and autoimmune skin disorders, through clinical examination, history-taking, and appropriate use of diagnostic tools
- 3 - Understand Dermatopathology: Students should gain knowledge of dermatopathology, including the interpretation of skin biopsies, histological patterns, and immunohistochemistry, to aid in the diagnosis and management of dermatological conditions
- 4 - Learn Principles of Dermatological Therapy: Students should understand the principles and modalities of dermatological therapy, including topical treatments, systemic medications, phototherapy, laser therapy, and surgical interventions, and their indications, contraindications, and potential adverse effects
- 5 - Develop Clinical Skills in Dermatology: Students should acquire skills in performing dermatological procedures, such as skin biopsies, cryotherapy, suturing, and wound management, as well as performing and interpreting dermatological tests, including patch testing and skin allergy testing
- 6 - Understand Dermatological Emergencies: Students should be familiar with dermatological emergencies, including Stevens-Johnson syndrome, toxic epidermal necrolysis, severe drug reactions, and acute allergic reactions, and develop skills in their recognition, management, and referral
- 7 - Develop Patient Communication and Counseling Skills: Students should acquire effective communication skills to establish rapport with patients, convey diagnoses, treatment plans, and prognosis, and provide counseling on sun protection, skincare, and management of chronic skin conditions
- 8 - Understand Dermatological Research and Evidence-Based Practice: Students should be familiar with research methodologies in dermatology, critically appraise scientific literature, and understand the importance of evidence-based practice in dermatological care and treatment decisions
- 9 - Promote Ethical and Professional Conduct: Students should uphold ethical principles, respect patient autonomy, maintain confidentiality, and demonstrate professionalism in their interactions with patients, colleagues, and the healthcare team

## Intended Learning Outcomes

### Knowledge and Understanding

- \* Students should demonstrate a comprehensive understanding of the anatomy, physiology, and histology of the skin, including its layers, appendages, vascular supply, and immune responses
- \* Students should be able to identify and classify common dermatological conditions, including infectious diseases, inflammatory disorders, neoplastic conditions, autoimmune diseases, and genetic skin disorders. They should possess knowledge of the etiology, pathogenesis, clinical features, and differential diagnosis of these conditions
- \* Students should develop an understanding of dermatopathology, including the interpretation of skin biopsy specimens, recognition of characteristic histological patterns, immunohistochemistry, and molecular diagnostics in dermatological diseases
- \* Students should learn and apply various diagnostic techniques used in dermatology, such as dermatoscopy, skin scraping, KOH examination, patch testing, and skin allergy testing. They should understand the indications, limitations, and interpretation of these diagnostic tools
- \* Students should acquire knowledge of the principles and modalities of dermatological therapy, including topical medications, systemic therapies, phototherapy, laser treatment, cryotherapy, and surgical interventions. They should understand the indications, contraindications, potential side effects, and monitoring requirements for these treatment modalities

### Intellectual Skills

- \* Students should develop the ability to critically analyze and evaluate clinical information, research findings, and diagnostic results to formulate accurate diagnoses, differential diagnoses, and treatment plans for dermatological conditions
- \* Students should be able to synthesize and integrate patient history, physical examination findings, laboratory results, and diagnostic tests to develop logical and evidence-based management strategies for dermatological conditions
- \* Students should develop skills in generating and narrowing down differential diagnoses based on clinical features, laboratory findings, and histopathological data, and employing a systematic approach to arrive at accurate diagnoses
- \* Students should be able to interpret and analyze diagnostic test results, including dermatopathology reports, laboratory findings, and imaging studies, to guide clinical decision-making and treatment planning
- \* Students should apply critical appraisal skills to evaluate and incorporate relevant scientific literature, guidelines, and clinical research into their practice, ensuring evidence-based dermatological care and treatment decisions

### Professional Skills

- \* Students should develop skills in conducting comprehensive dermatological patient assessments, including history-taking, physical examinations, and appropriate use of diagnostic tools, to gather relevant information for accurate diagnosis and treatment planning
- \* Students should acquire proficiency in performing dermatological procedures, such as skin biopsies, cryotherapy, suturing, and wound management, ensuring patient safety, comfort, and optimal outcomes
- \* Students should be able to develop individualized treatment plans for dermatological conditions, considering patient-specific factors, evidence-based guidelines, and therapeutic options. They should also demonstrate skills in monitoring treatment response and adjusting management as necessary
- \* Students should develop effective patient communication skills, including the ability to explain diagnoses, treatment options, and prevention strategies in clear and understandable language. They should provide appropriate counseling on sun protection, skincare, medication adherence, and self-care

**Professional Skills**

- \* Students should acquire skills in accurate and comprehensive clinical documentation, including medical history, physical examination findings, treatment plans, and progress notes, ensuring proper communication, continuity of care, and legal and ethical standards

**General Skill**

- \* Students should develop critical thinking skills to analyze and evaluate complex dermatological cases, research literature, and emerging trends, allowing them to make informed clinical decisions and adapt to varying patient presentations
- \* Students should acquire problem-solving skills in the context of dermatology, enabling them to identify and address clinical challenges, consider alternative approaches, and develop creative solutions for the management of dermatological conditions
- \* Students should cultivate strong interpersonal skills, enabling them to interact with patients, colleagues, and other healthcare professionals with respect, empathy, cultural sensitivity, and professionalism
- \* Students should acquire skills in efficiently managing and organizing dermatological information, including patient data, research literature, and clinical guidelines, to facilitate effective decision-making, continuity of care, and documentation
- \* Students should demonstrate proficiency in utilizing relevant technological tools and platforms used in dermatology practice, including electronic health records, imaging software, telemedicine platforms, and mobile applications for dermatological assessment and monitoring
- \* Students should develop skills in managing their time effectively, prioritizing tasks, and organizing resources to optimize productivity and maintain workflow efficiency in a dermatology setting

**Course Contents**

- 1 - Introduction to Dermatology
- 2 - Dermatological Anatomy and Physiology
- 3 - Diagnostic Techniques in Dermatology
- 4 - Dermatological Conditions
- 5 - Dermatological Procedures and Therapies
- 6 - Dermatological Emergencies and Urgent Conditions
- 7 - Dermatological Disorders in Specific Populations
- 8 - Dermatological Research and Innovations
- 9 - Professional Skills and Practice Management

**Teaching and Learning Methods**

- 1 - Lectures
- 2 - Case-Based Learning
- 3 - Small-Group Discussions
- 4 - Dermatopathology Sessions
- 5 - Clinical Rotations
- 6 - Dermatology Ward Rounds
- 7 - Dermatology Clinics
- 8 - Dermatological Procedures Workshops
- 9 - Virtual Dermatology Modules
- 10 - Dermatology Conferences and Guest Lectures

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First exam	6th week	20
attendance	At the end of the course	10
Research	8th week	20
Final exam	At the end of the course	50

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**Books and References**

Essential books	Clinical Dermatology by Thomas P. Habif
Recommended books	Dermatology: An Illustrated Colour Text by David Gawkrödger and Michael R. Ardern-Jones
Other References (Periodical, web sites, .... etc.)	American Academy of Dermatology (AAD) <a href="https://www.aad.org">https://www.aad.org</a>  Dermatology Online Journal (DOJ) <a href="https://escholarship.org/uc/derm">https://escholarship.org/uc/derm</a>