

List of Ph.D. Course work subjects that can be offered under
General Medicine Group from 2026

General Medicine							
Group I		Group II		Group III		Group IV	
Subject Code	Name of the subject	Subject Code	Name of the subject	Subject Code	Name of the subject	Subject Code	Name of the subject
PHGM101	Rheumatology	PHGM201	Clinical Immunology				

PHGM101: RHEUMATOLOGY

Introduction to Rheumatology

Introduction to Rheumatic disorders, Anatomy of joints and immune system, Pathogenesis of rheumatic diseases, Clinical spectrum of rheumatological disorders, Approach to common rheumatic diseases

Diagnosis and Assessment of Rheumatic Diseases

Classification / Diagnostic criteria, History taking & Musculoskeletal examination, How to diagnose Rheumatic disease - laboratory investigations, Imaging in rheumatology, Disease assessment, Biomarkers

Management of Rheumatic Diseases

Rationale and safe use of NSAIDs, DMARDs Dos and DONTs for Biologicals treated patients, Rationale use of steroids, Second line immune suppressants -When to refer, Rationale use of steroids, Second line immune suppressants -When to refer, An overview of Small molecules, Module 7 Vaccinations in Rheumatology, Dietary & Lifestyle modifications relevant to rheumatic diseases Patient Education & Psychosocial support in Rheumatology, Allied health sciences in Rheumatology (Physiotherapy and Occupational therapy)

Approach to diagnosis and management inflammatory arthropathies

Clinical approach to a patient with joint syndromes, RA and Early arthritis, Psoriatic arthritis, Spondyloarthritis, Osteoarthritis, Septic and other infective arthropathies, Impact of co-existing infections in rheumatic diseases, Pearls for diagnosis and management of gout and other arthropathies

Approach to diagnosis and management of Connective Tissue diseases

SLE & Antiphospholipid syndrome, Sjogren syndrome, Scleroderma and Myositis, MCTD, overlaps and undifferentiated connective tissue disease

Other Rheumatological Conditions

Metabolic disorders in rheumatology - Osteoporosis and Hypovitaminosis, D Other endocrine/metabolic syndromes with rheumatic manifestations (Focus on Hypothyroidism & Diabetes), Chronic pain syndromes, Soft tissue rheumatism, Back

pain and Neck pain, Hypermobility disorders, Rare and complex presentation of rheumatic diseases - Vasculitis in primary care, Rheumatological emergencies, Assessment of outcome measures, Children with rheumatological problem, Rheumatic diseases of adolescents & girl children, Pregnancy and lactation with Rheumatic diseases, Systemic manifestations of rheumatic diseases & Rheumatic manifestations of systemic diseases.

PHGM201: Clinical Immunology

Basic & Clinical Immunology

Unit 1: Introduction to immune system

Unit 2: Innate immunity – first response to infection and damaged self

Unit 3: Antigen recognition by antibodies and T cell receptors

Unit 4: B and T cell maturation

Unit 5: T cell activation, proliferation & trafficking in response to antigen

Unit 6: B cell activation, proliferation & differentiation in response to antigen

Unit 7: T cell differentiation & effector functions

Unit 8: Antibody-mediated effector functions

Unit 9: Immunological tolerance and autoimmunity

Unit 10: Infection and immunity

Unit 11: Immunodeficiency

Unit 12: Systemic immune diseases

Unit 13: Immune responses against tumors and transplants

Unit 14: Hypersensitivity

Unit 15: Congenital and acquired immunodeficiencies

Unit 16: The immunology of sepsis – life-threatening complication of infection

Unit 17: Treatment of immunological diseases

Unit 18: Vaccines, immunotherapeutics, immunodiagnostics