

PACIFIC MEDICAL UNIVERSITY, UDAIPUR

Ph.D. Entrance Syllabus –Dermatology & Venereology

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1. Basic Sciences Related to Dermatology

- **Structure and function of skin**
- **Epidermis, dermis & appendages**
- **Skin microbiology**
- **Skin immunology**
- **Genetics in dermatology**
- **Pathophysiology of skin disorders**
- **Cutaneous anatomy & histology**
- **Pigmentation and melanocyte biology**

2. General Dermatology

- **Primary & secondary skin lesions**
- **Diagnostic dermatology**
- **Approach to dermatological patient**
- **Dermatological terminology**
- **Pruritus, erythema, scaling**
- **Eczematous disorders**
- **Papulosquamous disorders**
- **Urticaria & angioedema**
- **Vesiculobullous disorders**
- **Disorders of pigmentation**
- **Disorders of keratinization**
- **Hair and nail disorders**

3. Dermatopathology

- **Basic dermatopathology**
- **Skin biopsy techniques**

- **Histopathology of common dermatoses**
- **Immunofluorescence techniques**
- **Correlation of clinical & histological features**

4. Infectious Diseases in Dermatology

Bacterial

- Impetigo, folliculitis, cellulitis, erysipelas
- Cutaneous tuberculosis
- Hansen's disease (Leprosy)

Viral

- Herpes simplex
- Herpes zoster
- Warts
- Molluscum contagiosum

Fungal

- Dermatophytosis
- Candidiasis
- Pityriasis versicolor
- Deep fungal infections

Parasitic

- Scabies
- Pediculosis
- Cutaneous leishmaniasis

5. Sexually Transmitted Infections (Venereology)

- **Epidemiology of STIs**
- **Syndromic management of STIs**
- **Syphilis (all stages)**
- **Gonorrhoea**
- **Chlamydial infections**
- **Chancroid**
- **LGV**

- **Donovanosis**
- **HIV/AIDS & associated dermatoses**
- **National STI control programmes**

6. Leprosy

- **Epidemiology**
- **Clinical spectrum (Ridley–Jopling classification)**
- **Immunology of leprosy**
- **Diagnosis**
- **Management & MDT**
- **Reactions (Type 1 & Type 2)**
- **Deformities & rehabilitation**
- **National Leprosy Eradication Programme (NLEP)**

7. Dermato-Therapeutics

- **Topical therapies**
 - Corticosteroids
 - Antifungals
 - Antibiotics
 - Keratolytics
- **Systemic therapies**
 - Antihistamines
 - Retinoids
 - Immunosuppressants
 - Antimicrobials
- **Adverse drug reactions**
- **Drug interactions**
- **Rational drug use in dermatology**

8. Procedural Dermatology & Aesthetics

- **Electrosurgery**
- **Cryotherapy**

- **Lasers in dermatology**
- **Chemical peels**
- **Dermatoscopy**
- **Skin grafting basics**
- **Cosmetic dermatology principles**
- **Hair transplantation (basic concepts)**

9. Research Methodology & Biostatistics

- **Research design**
- **Clinical & laboratory research**
- **Formulation of research question**
- **Ethics in dermatological research**
- **Informed consent**
- **ICMR & institutional ethics committee**
- **Biostatistics basics**
 - Mean, SD, p-value
 - Confidence interval
- **Evidence-based dermatology**
- **Scientific writing & publication ethics**

10. National Health Programs & Public Health Dermatology

- **NLEP**
- **National AIDS Control Programme (NACP)**
- **STD/STI control programmes**
- **Community dermatology**
- **Occupational dermatoses**
- **Environmental & social dermatology**