## THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY No. 69, ANNA SALAI, GUINDY, CHENNAI – 600 032.

# M.D. / M.S. POST GRADUATE DEGREE COURSES



## SYLLABUS AND CURRICULUM 2021 - 2022

M.D. DERMATOLOGY, VENEROLOGY AND LEPROSY

## THE TAMIL NADU Dr. M.G.R MEDICAL UNIVERSITY, CHENNAI M.D. DERMATOLOGY, VENEROLOGY AND LEPROSY

### 1. **GOALS**

The goals of postgraduate training course would be to train a MBBS doctor who will:

- To practice Dermatology, Venereology and Leprosy efficiently and effectively, backed by scientific knowledge, skill base, ethics and tenets of good medical practice.
- Recognize the economic costs of treatment and use the most effective therapy within the available economic resources.
- Communicate to patients and families the advantage of preventive as well as the importance of compliance to prescribed therapies.
- Be able to co-operate, collaborate with colleagues and contribute to the management, when the problem is a multi-system disease process.

### 2. OBJECTIVES

- 1. Knowledge (Cognitive domain)
- 2. Skills (Psycho motor domain)
- 3. Behavior: Affective domain: Human values, Ethical practice and Communication,
- 4. Partnership, Leadership and Teamwork abilities
- 5. Safety and quality
- 6. Maintaining trust

### Knowledge:

- Attain cognitive proficiency in the diagnosis and management of dermatological conditions, sexually transmitted diseases and leprosythrough a patient oriented structured curriculum.
- Describe the etiology, pathogenesis, clinical features, prognosis, differential diagnosis and treatment of diseases relevant to DVL.
- Demonstrate understanding of basic sciences relevant to the specialty and its application.

- Attain adequate knowledge in the clinical management of Sexually Transmitted Diseases and Infections (STDs & STIs) including HIV, surveillance and reporting, prevention of morbidity and mortality due to STDs and HIV by initiating treatment, partner notification and behavioral change. To know the importance of early diagnosis, prevention and transmission, management of long term risks of STDs including HIV.
- Attain knowledge about various sexual dysfunctions in both male and female and their management.
- Attain adequate knowledge about the importance of other departments like microbiology, obstetrics and gynecology, forensic medicine, medicine, public health and psychiatry.
- Attain knowledge about the care and support of male, female, transgender individuals of all age groups especially sexually active people, and vulnerable groups like drug abusers, sex workers etc.,
- Ability to teach and train different persons from undergraduate students, health care workers and community about STDs and STIs including HIV.

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- Attain adequate knowledge of management of patients through a "work-based, handson" curriculum which entails 1) supervised management of patients,2) ward duties,3) 24 hour "on-call duties" which requires one to attend dermatological emergencies.
- Attain adequate knowledge of management of complex dermatology problems by attending consultations from other specialties, and attending multidisciplinary clinics and meetings.
- Describe methods, indications, and interpretation of common Dermatology, Venereology and Leprosy laboratory procedures.
- Describe method, indications, contraindications and complications of common dermatosurgical and cosmetic procedures, phototherapy, patch tests, Lasers, and injectables.
- Demonstrate adequate knowledge of acquiring consent prior to performing procedures and taking clinical photographs.
- Identify social and economic determinants in a given case, and take them into account for planning therapeutic measures
- Recognize conditions that may be outside the area of his specialty/competence and to refer them to the appropriate specialist.

### 1 Skills:

- Record the patient's history in a structured format that benefits the patient and allows the physician to arrive at a diagnosis. This applies to both out-patient and in-patient setting with emphasis on patient confidentiality and effective time management (OPD setting).
- Perform a structured clinical examination of patients with Dermatology, Venereology and Leprosy related problems taking into account the specific systems that need to be examined in patients with Leprosy and Venereology related problems. Document clinical findings using acceptable terminology (relevant to DVL) in a structured manner.
- Document in- patient problems in a problem sheet with the management and discharge plan.
- Document progress, treatment, complications and the intervention strategies adopted in the careof in- patients.
- Provide treatment according to available best clinical evidence keeping in mind the economic impact of treatment on the patient.
- Perform and interpret results of common laboratory and other procedures relevant to Dermatology, Venereology and Leprosy.
- Interpret the histopathological features of benign and malignant diseases relevant to Dermatology, Venereology and Leprosy.
- Perform common dermatosurgical procedures in a safe and sterile environment.
- Provide basic and advanced life saving support services (BLS) in emergency situations
- Safety and Quality:

### Contribute to the safety of patients, self and community:

- 1. Regular audits of patient records, treatment administered, and guidelines followed
- 2. Report suspected adverse drug reactions
- 3. Report adverse event occurring during surgical and other procedures
- 4. Report needle stick injury and spills
- 5. External quality check of procedures done in the laboratory
- 6. Proper disposal of hospital wastes

- Affective Domain: Human values, Ethical practice and Communication, Partnership, Leadership and Teamwork abilities
- Adopt ethical principles in all aspects of his/her practice.
- Be aware of personal prejudices and judgmental attitude when confronted with diseases such as HIV, STDs, and leprosy. One should be able to deal with these positively through self-reflection or counselling.
- Develop communication skills, in particular the skill to explain various options available in management and to obtain a true informed consent from the patient.
- Develop partnership, leadership and teamwork abilities with colleagues, subordinates and others in the departments and in the community.
- Apply ethical standards while carrying out human or animal research.
- Recognize limitations in his knowledge and skill and refer to more competent colleagues, when needed.
- Observe professional decorum regarding comments on diagnostic or management practices of professional colleagues.
- Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

### Maintaining trust

Maintaining trust with patients.

Maintaining confidentiality and concern about the community in managing the various diseases of his/her speciality.

Application of the best of his/her knowledge for the well- being of the patient/community.

### 3. COMPONENTS OF THE POST GRADUATE CURRICULUM

- Theoretical Knowledge
- Practical and Clinical Skills
- Writing Thesis/Research Articles
- Attitudes including Communication Skills
- Training in Research Methodology, Medical Ethics /Bioethics and Medicolegal aspects

Students should compulsorily attend the research Methodology workshop conducted by the University within first six months of the M.D course.

Students are encouraged to attend workshops/CME's on Bioethics conducted by the University and other reputed Institutions.

Medical ethics, bioethics, moral and legal issues and medical audit are part and parcel of the curriculum and syllabus.

### 4. THEORY SYLLABUS

(Source: ROOK'S TEXT BOOK OF DERMATOLOGY Volume 1-4, Ninth Edition, 2016 Edited by – Christopher Griffiths, Jonathan Barker, Tanya Bleiker, Robert Chalmers, Daniel Creamer) 1.History of Dermatology

- 2.Structure and Function of the Skin
- 3. Histopathology of the Skin: General Principles
- 4. Diagnosis of Skin Disease
- 5. Epidemiology of Skin Disease
- 6.Health Economics and Skin Disease
- 7.Genetics and the Skin
- 8.Inflammation, Immunology and Allergy

9.Photobiology

- 10. Cutaneous Response to Injury and Wound Healing
- 11.Psychological and Social Impact of Long-term Dermatological
- 12.Adverse Immunological Reactions to Drugs
- 13. Topical Drug Delivery
- 14.ClinicalPharmacology
- 15. Principles of Holistic Management of Skin Disease
- 16.Principles of Measurement and Assessment in Dermatology
- 17.Principles of Evidence based Dermatology
- 18. Principles of Topical Therapy
- 19. Principles of Systemic Therapy
- 20. Principles of Skin Surgery
- 21. Principles of Phototherapy
- 22. Principles of Photodynamic Therapy
- 23. Principles of Cutaneous Laser Therapy
- 24. Principles of Radiotherapy
- 25.Viral Infections
- 26.Bacterial Infections
- 27.Mycobacterial Infections

- 28.HIV and the Skin 29. Fungal Infections **30.Parasitic Diseases** 31.Arthropods 32. Psoriasis and Related Disorders 33. Pityriasis Rubra Pilaris 34. Lichen Planus and Lichenoid Disorders 35.Graft ⊓versus ⊓host Disease **36.Eczematous Disorders** 37.Seborrhoeic Dermatitis 38. Atopic Eczema 39.Urticaria 40.Recurrent Angio oedema without Weals 41.Urticarial Vasculitis 42. Autoinflammatory Diseases Presenting in the Skin 43.Mastocytosis 44.Reactive Inflammatory Erythemas 45.Adamantiades-BehcetDisease 46.NeutrophilicDermatoses 47.Immunobullous Diseases 48.Lupus Erythematosus 49. Antiphospholipid Syndrome 50.Dermatomyositis 51.Mixed Connective Tissue Disease
- 52.Dermatological Manifestations of Rheumatoid Disease
- 53.Systemic Sclerosis
- 54. Morphoea and Allied Scarring and Sclerosing InflammatoryDermatoses
- 55. Cutaneous Amyloidoses
- 56. Cutaneous Mucinoses
- 57. Cutaneous Porphyrias
- 58. Calcification of the Skin and Subcutaneous Tissue
- 59. Xanthomas and Abnormalities of Lipid Metabolism and Storage
- 60. Nutritional Disorders Affecting the Skin
- 61. Skin Disorders in Diabetes Mellitus

- 62. Inherited Disorders of Cornification
- 63. Inherited Acantholytic Disorders
- 64. Ectodermal Dysplasias
- 65. Inherited Hair Disorders
- 66. Genetic Defects of Nails and Nail Growth
- 67. Genetic Disorders of Pigmentation
- 68. Genetic Blistering Diseases
- 69. Genetic Disorders of Collagen, Elastin and Dermal Matrix
- 70. Disorders Affecting Cutaneous Vasculature
- 71. Genetic Disorders of Adipose Tissue
- 72. Congenital Naevi and Other Developmental Abnormalities Affecting the Skin
- 73. Chromosomal Disorders
- 74. Poikiloderma Syndromes
- 75. DNA Repair Disorders with Cutaneous Features
- 76. Syndromes with Premature Ageing
- 77. Hamartoneoplastic Syndromes
- 78. Inherited Metabolic Diseases
- 79. Inherited Immunodeficiency
- 80. Pruritus, Prurigo and Lichen Simplex
- 81. Mucocutaneous Pain Syndromes
- 82. Neurological Conditions Affecting the Skin
- 83. PsychodermatologyandPsychocutaneous Disease
- 84. Acquired Disorders of Epidermal Keratinization
- 85. Acquired Pigmentary Disorders
- 86. Acquired Disorders of Hair
- 87. Acne
- 88. Rosacea
- 89. HidradenitisSuppurativa
- 90. Other Acquired Disorders of the Pilosebaceous Unit
- 91. Disorders of the Sweat Glands
- 92. Acquired Disorders of the Nails and Nail Unit
- 93. Acquired Disorders of Dermal Connective Tissue
- 94. Granulomatous Disorders of the Skin
- 95. Sarcoidosis

- 96. Panniculitis
- 97. Other Acquired Disorders of Subcutaneous Fat
- 98. Vascular Disorders Involving the Skin

99. Purpura

- 100. Cutaneous Vasculitis
- 101. Dermatoses Resulting from Disorders of the Veins and Arteries
- 102. Ulceration Resulting from Disorders of the Veins and Arteries
- 103. Disorders of the Lymphatic Vessels
- 104. Flushing and Blushing
- 105. Dermatoses of the Scalp
- 106. Dermatoses of the External Ear
- 107. Dermatoses of the Eye, Eyelids and Eyebrows
- 108. Dermatoses of the Oral Cavity and Lips
- 109. Dermatoses of the Male Genitalia
- 110. Dermatoses of the Female Genitalia
- 111. Dermatoses of Perineal and Perianal Skin
- 112. Cutaneous Complications of Stomas and Fistulae
- 113. Dermatoses of Pregnancy
- 114. Dermatoses of the Neonate
- 115. Dermatoses and Haemangiomas of Infancy
- 116. Benign Cutaneous Adverse Reactions to Drugs
- 117. Severe Cutaneous Adverse Reactions to Drugs
- 118. Cutaneous Side Effects of Chemotherapy and Radiotherapy
- 119. Dermatoses Induced by Illicit Drugs
- 120. Dermatological Manifestations of Metal Poisoning
- 121. Mechanical Injury to the Skin
- 122. Pressure Injury and Pressure Ulcers
- 123. Cutaneous Reactions to Cold and Heat
- 124. Burns and Heat Injury
- 125. Cutaneous Photosensitivity Diseases
- 126. Allergic Contact Dermatitis
- 127. Irritant Contact Dermatitis
- 128. Occupational Dermatology
- 129. Stings and Bites

- 130. Benign Melanocytic Proliferations and MelanocyticNaevi
- 131. Benign KeratinocyticAcanthomas and Proliferations
- 132. Cutaneous Cysts
- 133. Lymphocytic Infiltrates
- 134. Cutaneous Histiocytoses
- 135. Soft tissue Tumours and Tumour like Conditions
- 136. Tumours of Skin Appendages
- 137. Kaposi Sarcoma
- 138. Cutaneous Lymphomas
- 139. Basal Cell Carcinoma
- 140. Squamous Cell Carcinoma and its Precursors
- 141. Melanoma
- Melanoma Clinicopathology
- Systemic Treatment of Melanoma
- 142.Dermoscopy of Melanoma and Naevi
- 143.Merkel Cell Carcinoma
- 144.Skin Cancer in the Immunocompromised Patient
- 145. Cutaneous Markers of Internal Malignancy
- 146.The Skin and Disorders of the Haematopoietic and ImmuneSystems
- 147. The Skin and Endocrine Disorders
- 148. The Skin and Disorders of the Heart
- 149. The Skin and Disorders of the Respiratory System
- 150. The Skin and Disorders of the Digestive System
- 151. The Skin and Disorders of the Kidney and Urinary Tract
- 152. The Skin and Disorders of the Musculoskeletal System
- 153.Skin Ageing
- 154.Cosmeceuticals
- 155. Anatomy and approach in dermatologic surgery
- (Fitzpatrick text book edition 9 Volume 1 &2, 2019,
- Editors Sewon Kang, Masayuki Amagai, Anna L. Bruckner, Alexander H.Enk, David J.
- Margolis, Amy J. McMichael, Jeffrey S. Orringer
- 156. Cryosurgery and elecrosurgery
- 157. Nail surgery
- 158. Hair transplantation and alopecia reduction

### **Sexually Transmitted Infections**

(Source:SEXUALLY TRANSMITTED INFECTIONS 2<sup>nd</sup> edition

Editors: Dr. Somesh Gupta&Bhushan Kumar)

- 1. Historical aspects of Sexually Transmitted Infections
- 2. Global Epidemiology of Sexually Transmitted infections
- 3. Global Epidemiology of HIV infection
- 4. Sexual Behaviour and Sexually Transmitted infections
- 5. Prevention strategies for the control of sexually transmitted infections
- 6. Behavioral and counseling aspects of sexually transmitted infections (Including HIV)
- 7. Condoms and other Barrier methods of STI and HIV prevention
- 8. Prevention of HIV and other Sexually Transmitted Infections: Male circumcision
- 9. Microbicides for prevention of Sexually Transmitted Infections
- 10. Vaccines for Sexually Transmissible infections
- 11. Vaccines for HIV
- 12. Partner Notification for Sexually Transmitted Diseases
- 13. Implementation of STI programs
- 14. Monitoring and Evaluating Sexually Transmitted Infection Control Programs
- 15. Anatomy of the Male Genital Tract
- 16. Anatomy of the Female Genital Tract
- 17. Normal Genital Flora
- 18. History and Physical examination
- 19. Genital Mucosal Immunity Against Sexually Transmitted Infections
- 20. Laboratory Diagnosis of Sexually Transmitted Infections
- 21. Rapid tests for the Detection of Sexually Transmitted infections
- 22. Genital herpes simplex infections
- 23. Anogenital Human Papillomavirus infection: Natural History: Epidemiology, and vaccination
- 24. Anogenital Warts, Intraepithelial Neoplasia and their clinical management
- 25. Molluscum Contagiosum
- 26. Hepatitis Viruses
- 27. Human Cytomegalovirus infection
- 28. Epstein-Barr Virus Infections
- 29. Kaposi Sarcoma Herpesvirus
- 30. Infectious Syphilis
- 31. Late Syphilis

- 32. Endemic Treponematoses
- 33. Gonococcal Infections
- 34. Chlamydia Trachomatis Infections
- 35. LymphogranulomaVenereum
- 36. Chancroid
- 37. Donovanosis
- 38. Bacterial Vaginosis
- 39. Pelvic Inflammatory disease
- 40. Genital Mycoplasmas
- 41. Sexually Transmitted Anorectal Infections and Enteric Bacterial Infections
- 42. Genital Candidal Infections
- 43. Trichomonasvaginalis Infections
- 44. Intestinal Protozoa
- 45. The syndromic approach for the management of STIs: An overview
- 46. Genital Ulcer-Adenopathy syndrome
- 47. Urethral Discharge
- 48. Epididymitis and Epididymo-orchitis
- 49. Abnormal Vaginal Discharge: Syndromic management
- 50. Syndromic Management of Lower Abdominal pain in women
- 51. Inguinal and Femoral Buboes
- 52. Vulvar Vestibulitis Syndrome
- 53. Male Genital pain syndromes
- 54. Ocular Manifestations of Sexually transmitted infections
- 55. Arthritis associated with sexually transmitted infections
- 56. Human Immunodeficiency Virus: Biology and Natural history of infections
- 57. HIV Diagnosis
- 58. Pharmacology of Antiretroviral Drugs
- 59. Surrogate Markers of Antiretroviral Efficacy
- 60. Antiretroviral Drugs for HIV Prevention
- 61. Acute HIV infection
- 62. Opportunistic Infections
- 63. Mucocutaneous Manifestations of HIV
- 64. Pulmonary Manifestations of HIV Disease
- 65. Neurological Manifestations of HIV

- 66. Gastrointestinal Manifestations of HIV Infections and AIDS
- 67. Renal Manifestations of HIV Infection and AIDS
- 68. HIV and Endocrine Manifestations
- 69. AIDS Associated Malignancies and their treatment
- 70. Rheumatic Manifestations of HIV and AIDS
- 71. Cardiac Involvement in HIV Infection/AIDS
- 72. Ocular Manifestations of HIV Infection and AIDS
- 73. Sexually Transmitted Infections in HIV-Infected Patients
- 74. Human Immunodeficiency Virus infection in women
- 75. HIV in children
- 76. HIV infection in Homosexual Men
- 77. HIV in blood and blood product recipients
- 78. HIV in Injection and other drugs users
- 79. Sexually transmitted infections and pregnancy
- 80. Sexually Transmitted infections in Neonates and Infants
- 81. Congenital Syphilis
- 82. Sexually Transmitted Infections and Infertility
- 83. Aging. Sexual Behavior, and HIV/STI Risk
- 84. Sexually Transmitted infections in the Female Sex Worker Community
- 85. Sexually Transmitted Infections Associated with Sexual Assault
- 86. Sexual Health of Migrant Populations
- 87. Human Sexuality
- 88. Homosexuality, Bisexuality and Sexual Orientation
- 89. Sexually Transmitted Infections among women who have Sex with Women
- 90. Sexually Transmitted Infections in Transgender
- 91. Sexual Abuse in Children
- 92. Male Sexual Dysfunction
- 93. Women's Sexual Dysfunction
- 94. Sexuality Education for Young People
- 95. Dhat Syndrome: A Culture Bound Sex Related disorder in Indian Subcontinent
- 96. Clinical Services for Sexually Transmitted Infections and HIV
- 97. Medicolegal Aspects of Sexually Transmitted Infections and Sexual Assault
- 98. Sexually Transmitted Infections: Screening and Diagnostic Practices
- 99. Sexually Transmitted Infections Related Genital Neoplasias

- 100. HIV, Sexually Transmitted Infections, and Human Right
- 101. Animal Models of Sexually Transmitted Infections Guidelines for the Treatment of HIV and AIDS in Resource Limited Countries
- 102. Guidelines for Prevention of Perinatal HIV Infection
- 103. Guidelines for the Management of HIV-Associated opportunities Infections

#### Leprosy

(Source: IAL TEXT BOOK OF LEPROSY

Editors: Dr. Bhushan Kumar & Hemanta KumarKar2<sup>nd</sup> edition, 2016)

- History of Leprosy in India: A Historical overview from Antiquity to the introduction of MDT
- 2. Epidemiology of Leprosy
- 3. Global Leprosy situation: Historical perspective, Achievements, Challenges and future steps
- 4. Changing National Scenario, National Leprosy Control programmes, National Leprosy Eradication Programme, and New Paradigms of Leprosy Control
- 5. Immunogenetics of Leprosy
- 6. Bacteriology of Leprosy
- 7. Immunological Aspects
- 8. Biochemical Aspects of Leprosy
- 9. Pathological Aspects of Leprosy
- 10. Structure Electrophysiological and Ultrasongraphics studies of Peripheral Nerve
- 11. Pathomechanisms of Nerve Damage
- 12. Naturally occurring Leprosy: Mycobacterium leprae and other environmental mycobacteria in Nature
- 13. Experimental Leprosy: Contributions of Animal Models to Leprosy Research
- 14. History taking and clinical examination
- 15. Case definition and clinical types of Leprosy
- 16. Classification
- 17. Methods of Nerve examination
- 18. Histoid Leprosy
- 19. Laboratory diagnosis

- 20. Serological and molecular diagnosis of leprosy
- 21. Differential diagnosis of Dermatological Disorders in relation to Leprosy
- 22. Differential diagnosis of Neurological disorders in relation to Leprosy
- 23. Systemic involvement in Leprosy
- 24. Leprosy and Human immunodeficiency virus coinfection
- 25. Leprosy and pregnancy
- 26. Childhood Leprosy
- 27. Ocular Leprosy
- 28. Neuritis: Definition, Clinicopathological manifestations and Proforma to record nerve impairment in Leprosy
- 29. Leprosy Reactions: Pathogenesis and clinical features
- 30. Chemotherapy of Leprosy
- 31. Chemotherapy: Development and evolution of WHO-MDT and Newer treatment regimens
- 32. Management of Leprosy reactions
- 33. Management of neuritis and neuropathic pain
- 34. Chemoprophylaxis in Leprosy
- 35. Leprosy vaccine: Immunoprophylaxis and Immunotherapy
- 36. Nursing care in Leprosy patients
- 37. Deformities of Face, Hands, Feet and Ulcers and their management
- 38. Deformity and Disability prevention
- 39. Relapse in Leprosy
- 40. Drug resistance in Leprosy
- 41. Morbidity and Mortality in Leprosy
- 42. Rehabilitation
- 43. Community-based initiatives in Comprehensive Leprosy Work
- 44. Psychosocial Aspects in Leprosy
- 45. Human Rights and Stigma in Leprosy
- 46. Health Promotion, Education and Counseling
- 47. Role of NGOs in National Leprosy Eradication Programme

### 5. <u>Teaching and Learning Methods</u>

The emphasis should be on patient oriented learning

- 1. Acquire skills in clerking patients and communication through structured bedside clinics.
- 2. "On the job teaching" by faculty in the OPD and during ward rounds.
- 3. "One-One" or small group teaching of dermatosurgery and other procedures
- 4. Grand rounds
- 5. Structured "class-room" based clinics to prepare the candidate for the final summative exam (University)
- 6. Monthly Seminars
- 7. Monthly Symposia
- 8. Weekly Journal clubs
- 9. Group discussions
- 10. Multidisciplinary team meetings- Skin malignancies, Leprosy, Tuberculosis, HIV, Genodermatoses, and for management of leprosy reactions.
- 11. Tutorials- dermatopathology, clinical microbiology and virology, instruments
- 12. Didactic lectures (optional)
- 13. Students should attend the following training modules to attain basic competence in: Biostatistics, Research Methodology, Medical Ethics, Good medical practice, Communication skills, Medical education
- 14. Students should update their knowledge through attendance of subject related CMEs, workshops and conferences.

S. No.	First Year	Second Year	Venereology including basic sciences, therapeutics, pathol	
1	Knowledge : General Dermatology, Leprosy and Venereology including basic sciences, pathology, clinical microbiology and virology	General Dermatology, Leprosy and Venereology including basic sciences therapeutics, pathology, clinical microbiology and virology		
2	General DVL OPD clinics (minimum of 3/week) and ward postings-minimum of 6 months/year	General DVL OPD clinics (minimum of 3/week)and ward postings-minimum of 6 months/year	General DVL OPD clinics (minimum of 3/week and ward postings -minimum of 6 months/year	
	Special clinics: Vitiligo, Pigmentary, immunobullous, contact dermatitis, connective tissue diseases, psoriasis, Pediatric Dermatology, Leprosy, STI	Special clinics: Vitiligo, Pigmentary, immunobullous, contact dermatitis, connective tissue diseases, psoriasis, Pediatric Dermatology, Leprosy, STI	Special clinics: Vitiligo, Pigmentary, immunobullous, contact dermatitis, connective tissue diseases, psoriasis, Pediatric Dermatology, Leprosy, STI	

### 6. STRUCTURED TRAINING PROGRAM FOR DEGREE COURSE-DVL(3 years)

3	1.Elicit history and perform a clinical examination, arrive at a diagnosis, list differential diagnosis, select appropriate investigations and device a treatment plan.	1.Elicit history and perform a clinical examination, arrive at a diagnosis, list differential diagnosis, select appropriate investigations and device a treatment plan. Provide information about the disease in terms of prognosis, complications and treatment outcome. Counselling and follow up of patients should be advocated	1Elicit history and perform a clinical examination, arrive at a diagnosis, list differential diagnosis, select appropriate investigations and device a treatment plan. Provide information about the disease in terms of prognosis, complications and treatment outcome. Counselling and follow up of patients should be advocated.
4	Procedural skills for trainees: 1. Hand washing and sterile technique for procedures. 2.Take an informed consent for procedures	Procedural skills for trainees:(in addition procedural skills attained in year 1) 1.Biopsies: nail, oral, nerve biopsies (under supervision) 2.Phototherapy- Administer Narrow UVB, PUVA, targeted phototherapy, hand and foot phototherapy, bath PUVA, soak PUVA	Procedural skills for trainees: The postgraduate trainee should be able to perform the procedures learnt in year 1 and 2 safely and effectively, under supervision when required.
	<ol> <li>Methods of administration of local anesthesia for biopsies and other procedures</li> <li>Biopsies: Skin (punch, shave, elliptical, wedge) biopsies under sterile conditions, under supervision</li> <li>Describe histological features of common diseases including leprosy</li> <li>Intralesional injections</li> <li>Cryotherapy</li> </ol>	<ul> <li>3.Perform Patch tests- standard and photopatch, interpret results and counsel</li> <li>4. Perform Contact immunotherapy for alopecia areata</li> <li>5.Perform a drug challenge (under supervision)</li> <li>6. Administer all Dermatology, Leprosy and Venereology related drugs and biologics in appropriate doses under supervision, after counseling patients on the side effects, expected benefits, interactions and teratogenic potential</li> </ul>	

8.Paring	7 .Describe histologic features of common benign and malignant lesions and	
9.Nail Avulsion	leprosy, interpret special stains and	
10.Electrosurgery	immunohistochemistry	
11. Radiofrequency surgery	8. Observe preparation (grossing, staining) of dermatopathology specimens.	
12.Molluscum needling		
13. Chemical cautery 14.Auto Inoculation of Wart	9. Observe direct and indirect immunofluorescence procedures of immunobullous and connective tissue diseases(Optional)	
15. Vitiligo grafting	10. Microbiology and Virology: i)Learn techniques of plating and culture of bacteria	
16.Acne Scar Surgeries	associated with skin and soft tissue infections, fungus,	
17.Dermaroller	M.Tb and atypical mycobacteria and STIs	
18.PRP		
19.Aesthetic Procedures(Botox / Fillers- Demo)	ii) Observe and learn methods of performing and interpretation of serological	
20. Lasers (demo) 21. Wood's lamp-	tests relevant to STIs iii)Observe lab techniques in diagnosis HIV	
21. Wood's lamp- indications and interpretation of results	11. Dermatoscope- Learn the	
22. Students must be familiar in administering	features of dermascopic images of relevant common skin conditions and help to arrive at a diagnosis and	
i)Saline soak compresses, bleach baths, medicated tub	differentiate benign and malignant pigmented lesions.	
bath, wet wraps	12. Trichoscopy- should be able to recognize common	
ii) Fluid and temperature management in patients with skin failure	hair shaft abnormalities 13.Radiodermatology –	
23.Aware of principles of barrier nursing in patients	Describe and interpret the features of relevant CXR, CT, MRI and fluoroscopic images	

	with skin failure	eg. Esophagus in scleroderma	
		14 .Peripheral Nerve High Resonance USG in Leprosy	
		15. Teledermatology: Students should be introduced to teledermatology	
		16.Trainees can observe and learn basics of compounding of common topical preparations used in Dermatology (optional)	
5	Safety and Quality– Trainees should: 1.Report adverse events during procedures to the supervisor 2. Report needle stick injuries 3. Be able to dispose medical waste correctly	Safety and Quality 1.Report adverse drug reactions In addition to those already mentioned (1 <sup>st</sup> year)	Safety and Quality 1.Trainees should perform a clinical audit
6	Dermatology Laboratory: 1.Learn methods for appropriate specimen collection- pus culture, throat culture, nasal swab,Tzanck smear, herpes culture, fungal culture, Mycobacterium Tb and atypical Mycobacteria, Leishmaniasis, and STIs 2.Trainees should be trained to perform KOH, Gram stain, Leishman's stain/ Giemsa stain, Tzanck, , ZN stain, demonstrate sclerotic bodies Leprosy- Perform slit skin smears, stain and interpret slides STI-Students should be able to identify STI pathogens- trichomonas,	perform KOH, Gram stain, Leishman's stain/ Giemsa stain, Tzanck smear , ZN stain, demonstrate sclerotic bodies Leprosy- Perform slit skin	Trainees should be able to perform and interpret independently the following: KOH, Gram stain, Leishman's stain/ Giemsa stain, Tzanck, ZN stain, demonstrate sclerotic bodies Leprosy- Perform slit skin smears, stain and interpret slides Calculate BI and MI STI-Students should be able

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	gonococci, H.ducreyi, clue cells and Donovan bodies. Should be able to identify MNGs in herpetic infections Dark field examination for treponema pallidum		
7	Dermatology emergencies- Trainees should attend to dermatology emergencies during their 24 hour "on call" duties under supervision	Dermatology emergencies- Trainees should attend to dermatology emergencies during their 24 hour "on call" duties under supervision	Dermatology emergencies- Trainees should be able to independently diagnose and treat common emergencies and seek help from the attending consultant when required
8	Internal rotation: Venereology posting – 70 days / year – This is for Institutions where Venereology is present as a separate department. External rotation (MD trainees) Microbiology Department - 3 weeks Pathology (Dermatopathology)- 3 weeks Infectious Disease Unit/ Internal Medicine - 4 weeks	External rotation(MD trainees)-optional Community Dermatology - should participate in school surveys,/camps or work in a secondary care dermatology departments in rural areas (2 weeks) -	
9	Academic Activities Attend CME-1 (optional)	Academic activities 1. Attend State level conference,CME 2. Participate in Undergraduate teaching	Academic activities 1. Attend National conference,CME 2. Participate in Undergraduate teaching

### Leprosy

First Year	Second Year	Final year
<ol> <li>Trainees should be able to take a history, examine skin lesions, peripheral nerves, perform a sensory-motor examination and record findings, list deformities and signs of reaction and classify the disease</li> <li>Trainees should learn to counsel patients and attenders about early signs and symptoms of leprosy, ameliorating the taboo against leprosy .</li> <li>Trainees should develop skills in interacting with the patients, persuading them to bring the family members for examination</li> <li>Stress should be given to acquire knowledge on medical occupational and social rehabilitation of patients</li> </ol>	<ol> <li>Trainees should be encouraged to attend various camps organized at periphery level by district authorities.</li> <li>Trainees should take part in health education regarding prevention of damage to eyes, deformities of limbs.</li> <li>Trainees should be posted to leprosy homes rehabilitation centres, district leprosy hospitals for Institutions where leprosy patient load is inadequate for satisfactory training of postgraduates</li> </ol>	<ol> <li>Trainees should be able to take a focused history, perform a relevant clinical examination, do slit skin smears for AFB, interpret results, treat and counsel patients with leprosy.</li> <li>Trainees should attain a sound knowledge of the principles of rehabilitative surgery, use of prostheses and disability prevention.</li> </ol>

### Venereology

Knowledge Skills	Attitude Skills	Psychomotor Skills	
First Year			
Classification of STDS	Communication skills and Case holding	Blood sample collection, labeling	
Impact of STDs on the World – past, present and future	Non Judgmental and Non Moralistic history taking	Smear preparation, Staining and microscopy	
Incubation period and Window period and their importance in	Psychological impact of STDS	Examination of a patient and describing the findings.	

STDS		
Difference between STDs and STIs		Disposal of Waste
Hospital Waste Management		
SECOND & THIRD YEAR		
Syndromic Management and other Managements of STDS	Attitude towards HRB persons like FSW, MSM, TGs etc	RPR Test, HIV Test, Smear preparation from lesions
PEP for HIV	Pre test and Post test Counseling for HIV	Vaginal Speculum examination
Complications of STDs	Sexual Orientation	ViAViLi Testing
Gender Identity, Gender Role	Initiation of HAART	Colposcopy (Optional)
Human Sexual Behavior and Sexual Response cycle, Sex problems	Premarital and Pre employment testing	Podophylline application
ART drugs	Partner revelations, Partner Participation,	Prostatic massage
Govt. Program(NACP)	Follow Up Skills	Paraphimosis reduction (Optional)
Legal aspects of STDs, Sex and Sexuality	Case reporting	Semen analysis, and Circumcision(Optional)
Use of newer investigations tools in the management of STDs	Partner notification	Lumbar Puncture (Optional)
Vaccines in STDS		Proctoscopy
Sex Reconstruction Surgery		
Pre marital and Pre employment tests		
Interpretation of tests		

Marriage and STDs, Infertility	
ART Failure and 2 <sup>nd</sup> line ART, Resistance and Reinfection, Partner treatment	
Emergency contraception	

STDs- Sexually Transmitted Diseases, STIs - Sexually Transmitted Infections, PEP- Post Exposure Prophylaxis, HIV- Human Immunodeficiency Virus, ART – Anti Retrovirus Therapy, NACP – National AIDS Control Program, FSW – Female Sex Worker, MSM – Men having Sex with Men, TG – Transgender, HAART – Highly Active Anti Retroviral Therapy, RPR – rapid Plasma Reagin Test, ViAViLi Test – Visual Inspection of Cervix with Acetic Acid and Lugols Iodine.

During II<sup>nd</sup> year, the Students are encouraged to undergo special postings for learning new advanced techniques / procedure / skills in institutions of higher repute where the requisite facilities are available without affecting the duties of the parent department.

7. Evaluation of the candidates in both theory and practical aspects will help the candidate in improvement of his/her knowledge, skills and attitude.

## 8. COMPETENCY ASSESSMENT :

<ul> <li>a) Communication / commitment / Contribution / Compassion towards patients and Innovation</li> <li>b) Implementation of newly learnt techniques/skills</li> </ul>	() () ()	- 5 Marks
Number of cases presented in Clinical Meetings/		
Journal clubs/seminars		- 5 marks
Number of Posters/Papers presented in Conferences/		
Publications and Research Projects		- 5 marks
No. of Medals / Certificates won in the conference /		
Quiz competitions and other academic meetings with details.		- 5 marks
Total		20 Marks

- Journal based / recent advances learning
- Patient based /Laboratory or Skill based learning
- Self directed learning and teaching
- Departmental and interdepartmental learning activity
- External and Outreach Activities / CMEs

#### PG CLINICAL COURSES VIVA including Competency Assessment

- 80 Marks (60 + 20)

Log Book

20 marks

### ASSESSMENT SCHEDULE IS AS FOLLOWS

Year of study		Period					
l year	Upto Dec	Jpto Dec 10 marks Upto June 10 marks					
II year	Upto Dec	Upto Dec 10 marks Upto June 10 marks					
III year	Upto Oct	Upto Oct 10 marks Upto Feb. 10 marks					
	AVERAGE				20 marks		

### 9. Dissertation and University Journal of Medical Sciences:

As per the 49<sup>th</sup> SAB Resolution under Point No. 2 and in the 52<sup>nd</sup> SAB it was reiterated regarding the topic for dissertation

The topic for the dissertation should be registered and sent to the University after Ethics Committee approval before 31<sup>st</sup> of December of the first Post Graduate Year. Only one change of topic with proper justification from the Head of the Department is permitted before 31<sup>st</sup> March of the first Post Graduate Year. The change of dissertation title will not be permitted after 31<sup>st</sup> March of the First Post Graduate Year. This modification in regulation will be scrupulously followed from the academic year 2015-16 admission onwards.

As per Medical Council of India Post Graduate Medical Education Regulations 2000 (amended upto 10th August 2016)clause 13.9 A Postgraduate student of a Postgraduate degree Course in broad specialties/Super Specialties would be required to present one poster presentation to read one paper at a National/State conference and to present one Research paper which should be published/accepted for publication/sent for publication during the period of his Postgraduate studies so as to make him eligible to appear at the Postgraduate Degree Examination.

As per MCI Clause 14 (4)(a), thesis shall be submitted atleast 6 Months before the Theory and Clinical/Practical Examination.

A candidate shall be allowed to appear for the Theory and Practical/Clinical Examination only after the acceptance of the Thesis by the Examiners.

The periodical evaluation of dissertation/log book should be done by the guide / HOD once in every six months. The HOD should ensure about the submission of dissertation within the stipulated time.

Regarding submission of articles to the University Journal of Medical Sciences for all the PG Degree/Diploma courses, it is mandatory that the students have to submit at-least one research paper. <u>Case Reports are not considered as Research Paper</u>

### **10. THEORY EXAMINATION:**

Paper – I Basic Science as applied to Dermatology, STDs and Leprosy

Paper – II Dermatology

Paper – III STD & Leprosy

Paper – IV Recent advances in field of Dermatology, Applied Sciences pertaining to skin /VD & internal medicine and skin

### **Question paper Pattern**

<u>Paper I</u>

SECTION - A DERMATOLOGY AND LEPROSY

II. PHYSIOLOGY:	2 x 5	= 10
III. BIO-CHEMISTRY:	2 x 5	= 10
IV. PHARMACOLOGY:	2 x 5	= 10
V. MICROBIOLOGY:	2 x 5	= 10
VI. PATHOLOGY:	2 x 5	= 10

 $2 \times 5 = 10$ 

SECTION B - STDs

l.	ANATOMY:	2 x 5	= 10
II.	PHYSIOLOGY:	2 x 5	= 10
III.	BIO-CHEMISTRY:	1 x 5	= 5
IV.	PHARMACOLOGY:	1 x 5	= 5
V.	MICROBIOLOGY:	1 x 5	= 5
VI.	PATHOLOGY:	1 x 5	= 5
	Total :		100 marks

### Paper II

I. Elaborate on:	2 x 15 = 30
II. Write notes on:	10 x 7 = 70
	Total 100 marks

Paper III

SECTION – A (STD)	
I. Elaborate on:	1 x 15 = 15
II. Write notes on:	5 x 7 = 35
SECTION – B (LEPROSY)	
I. Elaborate on:	1 x 15 = 15
II. Write notes on:	5 x 7 = 35
	Total 100 marks
Paper IV	
SECTION – A (DERMATOLOGY & LEPROSY)	
III. Elaborate on:	1 x 15 = 15
IV. Write notes on:	7 x 7 = 49
SECTION – B (VENEREOLOGY)	
III. Elaborate on:	1 x 15 = 15
IV Write notes on:	3 x 7 = 21
	Total 100 marks

### **11.** PRACTICAL EXAMINANTION:

2 LONG CASE X 40 MARKS	80 MARKS
2 SHORT CASES X 25 MARKS (LEPROSY 1, STD 1)	50 MARKS
CASE DISCUSSION	50 MARKS
Spotters - 10 x 5 = 50	
OSCE 5 stations x 4 marks	20 MARKS
CLINICAL TOTAL	200 MARKS (A)

		VIVA	
		DISCUSSION INSTRUMENTS	
	DERMATOLOGY	DRUGS	
VIVA		SLIDES	80 MARKS
		DISCUSSION	
	STD	INSTRUMENTS	
		CHARTS KIT & CONDOM	
LOG BOO	Ж		20 MARKS
VIVA TOT	AL		100 MARKS (B)
AGGREG	ATE (CLINICAL + VIV	4)	300 MARKS (A+B)
MINIMUM	REQUIRED FOR PAS	SS (50%)	150 MARKS
DISSERT	ATION		APPROVED / NOT APPROVED

### MD DVL

CLINICALS			
Two Long case x 40	marks	80 Marks	
Two short cases x 25	o Marks	50 Marks	
(Leprosy 1 + STD 1)			
Spotters		50 Marks	
OSCE		20 Marks	
Clinical Total		200Marks(A)	
VIVA (including Com	VIVA (including Competency Assessment - (CA)) 60 + 20 marks		
Dermatology	Discussion Instruments		
(Including Leprosy)	Drugs		
40 + 10 marks		80 Marks	
STD	Discussion		
(10 marks)	Instruments		

Charts		
Kits & Condom		
LOG BOOK	20 Marks	
Viva Total (Viva+CA+Log Book	100 Marks (B)	
Aggregate (Clinical + Viva Total)	300 Marks (A+B)	
Minimum required Pass Marks	150 Marks	
Dissertation	Approved / Not Approved	

### Clinical Examination in MD DVL -Detailed

CLIN	CLINICALS				
1.	Long Case – 2 X 40 = 80	80 marks			
2.	Short Case – 2 X 25 = 50 (Leprosy -1 , STD – 1)	50 marks			
3.	Spotters – 10 X 5 =50	50 Marks			
4.	OSCE / OSPE -5X4=20	20 marks			
	Total	200 Marks (A)			

MD DVL

**Clinical Exams** 

I. LONG CASE				
Duration : 40 mins for	A)History			10 marks
Examination; 15 mins for	B) Physical findings & Clinical Bedside tests			15 marks
Assessment	C) Diagnosis and differential Dia	agnoses		5 marks
Total – 55 mins	D) Management (5+5+5)			15marks
	1. Investigation	5 marks		
	2. General Measures	5 marks		
	3. Specific Treatment (Topical & Systemic	5 marks		
	E)Communication & Counseling			5 marks
Total			50 marks	
II. SHORT CASE				
		5 marks	6	
STD CASE	Physical Findings		5 marks	3
Examination 15 mins	Investigations	, ,		3

Assessment 10 mins	Diagnosis and diffe	rential Diagno	ses	3 marks
	Treatment			3 marks
Total – 25 mins	Counseling			3 marks
	Follow up / Partne	r Management		3 marks
Leprosy	Focused History			5 marks
Examination 15 mins	Physical Findings			10 marks
Assessment 10 mins	Diagnosis			3 marks
Total – 25 mins	Management			
Total – 25 mins	Investigation	Treatment		
		Medical	Surgical,	7 marks
		Counseling	&	
Education				
Total	l (STD Case + Leprosy)			50 marks

### Spotters:

10 Spotters including at least 1 case/ case scenario of STD and 1 case/ case scenario of Leprosy

Total – 30 marks

Time – 30 mins

Each spotter- 3 mins

1 min for Examination

2 mins – Assessment

### 12.LOG BOOK:

The post graduate students shall maintain a record(log)book of the work carried out by them and the training program undergone during the period of training.

The record or log book shall be checked and assessed periodically by the faculty members imparting the training

Periodic review of Log book and Dissertation have to be done in the Department by guide/HOD once in every 6 months

DERMATOLOGY and	General dermatology & Le	General dermatology & Leprosy		
EPROSY	Instruments		10 marks	
8 – mins	Drugs		10 marks	
50 marks	Recent Advances	Recent Advances		
	Aesthetic / Dermato-surge	ry	10 marks	
STD	Applied Basics		10 Marks	
2-mins	Instruments		]	
10 marks	Charts	Charts		
	Kit & Condom			
Total	al		60 marks	
Log book	Log book 2		ks	
Viva total including CA		80 marks		
Log Book (20 Marks )+ Viva Tot	al (80 Marks 10		100 marks (B)	
Aggregate (Clinical + Viva + Log	g book )	300 ma	arks (A + B )	
Minimum required for Pass (50%)		150 ma	arks	
Dissertation		Approv	ed / Not Approved	

### 14. OSCE /OSPE

10 Stations, Each -2 mins

Marks: 5 X 10 = 50 marks

- 1. Histopathology Tumors -Benign/malignancy
- 2. Histopathology Non Tumors
- 3. Wet Mount / KOH / Tzanck / SSS / Grams Stain / Any culture
- 4. STD Station I
- 5. STD Station II
- 6. Leprosy Splint / Prosthesis
- 7. Occupational Dermatology
- 8. Dermato-surgery
- 9. Aesthetic Dermatology
- 10. X-rays / CT scans / MRI/Any image

#### **15.Recommended books** (The latest Edition of the text books listed is recommended)

- 1. Rook's Text book of Dermatology.Edited by Christopher Griffiths, Jonathan Barker, Tanya Bleiker, Robert Chalmers & Daniel Creamer. 9<sup>th</sup> edition.
- 2. Fitzpatrick's Dermatology in General Medicine. Lowell A. Goldsmith, Stephen I. Katz, Barbara A. Gilchrest, Amy S. Paller, David J. Leffell, Klaus Wolff.8<sup>th</sup> Edition
- 3. Dermatology (Bolognia, Dermatology). Jean L. Bolognia MD, Joseph L. Jorizzo MD, Julie V. Schaffer MD, Jean L. Bolognia, Joseph L. Jorizzo, Julie V. 3<sup>rd</sup> Edition
- 4. IADVL Text Book of Dermatology. Editor S. Sacchidanand, Co-editors ChetanOberai, Arun C. Inamadar. 4<sup>th</sup> edition
- 5. Andrew's Diseases of the Skin Clinical Dermatology. James DJ, Berger TG, ElstonDM,Neuhaus 12<sup>th</sup> edition
- 6. SexuallyTransmitted Diseases.King K. Holmes, P. Frederick Sparling, Walter E. Stamm, Peter Piot, Judith N. Wasserheit, Lawrence Corey, Myron S. Cohen and D. Heather Watts. 4th edition.
- 7. Sexually Transmitted Infections, Bhushan Kumar, Somesh Gupta.2nd Edition.
- 8. Sexually Transmitted Diseases and HIV/AIDS.Vinod K. Sharma. Second edition
- 9. Oxford Handbook of Genito Urinary Medicine, HIV and Sexual Health Edited by Richard Pattman and K Nathan Sankar
- 10. Sexually Transmitted Infections The Facts David Barlow
- 11. Sexually Transmitted Infections and Sexually Transmitted Diseases Edited by Gerd Gross and Stephen K Tyring
- 12. ABC of Sexually Transmitted Infections, Sixth Edition by Karen E Rogstad
- 13. Color atlas and synopsis of Sexually Transmitted Diseases, Third Edition by Hunter Handsfield
- 14. Sexually Transmitted Infections and HIV- An illustrated guide to management by VeerakathyHarindra, VerapolChandeying, and N. Usman
- 15. Websites of WHO, CDC and NACO for current updates
- 16. Hand book of Sexual dysfunction Edited by Richard Balon and R. Taylor Segraves
- 17. Textbook of Clinical Sexual Medicine by IsHak and Waguih
- 18. Leprosy, 2nd edition. Robert C. Hastings. Churchill. Livingstone: 1994
- 19. IAL text book of Leprosy. Editors Bhushan Kumar, Hemanta Kumar Kar. 2<sup>nd</sup> edition

- 20. Handbook of Leprosy. by W.H. Jopling
- 21. Dharmendra, Leprosy 2 Volumes 1<sup>st</sup> Edition 1985, Samant and Company.
- 22. Histopathology of the Skin. Walter F. Lever Gundula Schaumburg Lever, 11<sup>th</sup> edition.
- 23. Weedon'sSkin Pathology.4<sup>th</sup> edition
- 24. Comprehensive dermatologic drug therapy. Stephen E. Wolverton. 3<sup>rd</sup> edition.
- 25. Fisher's Contact Dermatitis. <u>Robert L. Rietschel</u>, <u>Joseph F. Fowler</u>, <u>Alexander A.</u> <u>Fisher</u>. 6<sup>th</sup> edition
- 26. Diseases of the nails and their management. Baran R, Dawber RPR, De Berker. 4<sup>th</sup> edition
- 27. A Textbook of Skin Disorders of Childhood and Adolescence. Hurwitz Clinical Pediatric Dermatology. <u>Amy S Paller</u>, <u>Anthony J. Mancini MD</u>. 5th Edition.
- 28. Dermatological Signs of Systemic Disease.Jeffrey Callen Joseph Jorizzo John Zone Warren Piette MishaRosenbach Ruth Ann Vleugel. 5th Edition.
- 29. Surgical Management of Vitiligo.Somesh Gupta, Mats J. Olsson, Amrinder J. Kanwar, Jean-Paul Ortonne
- 30. ACS(I) Textbook on Cutaneous and Aesthetic Surgery Hardcover 2012 by <u>Venkataram</u>.
- 31. Text Book & Atlas of Dermato Surgery &Cosemetology. Satish S. Savant, RadhaAtalshah, Deepak Gore
- \*\* Note : The editions are as applicable and the latest editions shall be the part of the syllabi.

### **16. RECOMMENDED JOURNALS**

- 1. Archives or Dermatology
- 2. British Journal of Dermatology
- 3. Indian Journal of Dermatology
- 4. Indian Journal of Dermatology, Venereology & Leprosy
- 5. Journal of American Academy of Dermatology
- 6. Journal of European Academy of Dermatology & Venereology
- 7. International Journal of Dermatology
- 8. Seminars in Cutaneous Medicine & Surgery

- 9. Clinical and Experimental Dermatology
- 10. Journal of Investigative Dermatology
- 11. Dermatology online
- 12. Indian dermatology online journal
- 13. Indian Journal of Leprosy
- 14. Leprosy Review
- 15. International Journal of STD & AIDS
- 16. Indian journal of Sexually transmitted diseases
- 17. Genitourinary Medicine
- 18. Pediatric Dermatology

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