

Program and Course Structure

School of Medical Science and Research

MD (Dermatology)

Session:2020-23

1. Standard Structure of the Program at University Level

1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

1. Transformative educational experience
2. Enrichment by educational initiatives that encourage global outlook
3. Develop research, support disruptive innovations and accelerate entrepreneurship
4. Seeking beyond boundaries

Core Values

- Integrity
- Leadership
- Diversity
- Community

1.2 Vision and Mission of the School

Vision of the School

To serve the society by being a premier institute that promotes a comprehensive approach to human health through excellence in academics, research and clinical care

Mission of the School

- Provide a transformative educational experience in Medical Science
- Develop skills and competencies to create global leaders in clinical care
- Promote innovative and collaborative research through intellectual and technological advancement
- Establish a center for excellence in preventive, promotive and curative health care

Core Values

- Integrity
- Leadership
- Ethics
- Community Health

1.3 Programme Educational Objectives (PEO)

1.3.1 Writing Programme Educational Objectives (PEO)

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

A post graduate student having qualified the MD (Dermatology) examination should be able to:

PEO1. Acquire knowledge of basic sciences as applied to dermatology.

PEO2. Acquire in-depth knowledge of dermatology, venereology and leprosy including recent advances.

PEO3. Become fully conversant with the bedside procedures (diagnostic and therapeutic) and have knowledge of latest diagnostics and therapeutics available.

PEO4. Critically evaluate, initiate investigation and clinically manage cases in Dermatology, Venereology and Leprosy with the help of relevant investigations.

PEO5. Plan and advice measures for the prevention and rehabilitation of patients with various dermatological conditions.

PEO 6. Practice the specialty of dermatology ethically.

PEO7. Recognize the health needs of patients and carry out professional obligations in keeping with principles of National Health Policy and professional ethics.

PEO8. Become familiar with basic concepts of research methodology, plan a research project, consult library and online resources, have basic knowledge of statistics and can evaluate published studies.

PEO9. Ensure the implementation of National Health Programmes, particularly in sexually transmitted diseases (STD) and leprosy.

PEO10. Learn the basic methodology of teaching and develop competence in teaching medical/paramedical students.

1.3.2 Map PEOs with Mission Statements:

PEO Statements	School Mission 1	School Mission 2	School Mission 3	School Mission 4
PEO1:	3	1	“”	“”
PEO2:	3	2	“”	1
PEO3:	“”	3	“”	2
PEO4:	1	“”	3	1
PEO5	2	1	“”	1
PEO6	2	3	“”	2
PEO7	“”	3	“”	3
PEO8	3	3	3	3
PEO9	1	3	2	2
PEO10	3	2	“”	1

Enter correlation levels 1, 2, or 3 as defined below:

- 1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High)**

If there is no correlation, put “-“

1.3.3 Program Outcomes (PO's)

A. Cognitive Domain

- PO1:** Describe structure, functions and development of human skin.
- PO2:** Diagnose and treat inflammatory and neoplastic disorders of dermis.
- PO3:** Manage skin lesions in nutritional, metabolic and heritable disorders.
- PO4:** Describe anatomy of male and female genitalia, epidemiological transmission, clinical aspects and management of STDs and HIV.
- PO5:** Describe clinical features, reactions, treatment and rehabilitation in leprosy.
- PO6:** Describe common dermatological malignancies in the country and their management including prevention.
- PO7:** Acquire knowledge of the basics of laser operation and precautions which needs to be taken.
- PO8:** Demonstrate competence in basic concepts of research methodology and interpretation of data in medical literature/publications.

B Affective domain

- PO9:** Behavior and Emotional Stability: Dependable, disciplined, dedicated, stable in emergency situations and shows positive approach.
- PO10:** Honesty and Integrity: Is truthful, admits mistakes, does not cook up information, has ethical conduct and exhibits good moral values.
- PO11:** Motivation and Initiative: Is innovative, enterprising, does not shirk duties or leave any work pending and motivates team members.
- PO12:** Demonstrate self-awareness and personal development in routine conduct.
- PO13:** Should be able to maintain confidentiality with regards to history, physical examination and management of patients.
- PO14:** Identify social, economic, environmental, biological and emotional determinants of patients, and institute diagnostic, therapeutic, rehabilitative, preventive and promote measures to provide holistic care to patients at individual and community level against skin, venereal disease and leprosy.

C. Psychomotor Domain The student should acquire competencies in the following tasks:

- PO15:** Acquire skills in history taking, physical examination, diagnosis and management of patients in dermatology, venereology and leprosy.
- PO16:** Should be able to identify, classify and differentiate cutaneous findings in dermatological terms in a systematic way.
- PO17:** Be competent to manage dermatologic emergencies like angioedema, toxic epidermal necrolysis (TEN), Stevens-Johnson syndrome (SJS), pemphigus, drug reaction and necrotic erythema nodosum leprosum (ENL).
- PO18:** Should be able to perform common laboratory procedures like potassium hydroxide (KOH) mount, Gram stain, Giemsa stain, acid fast bacilli (AFB) stain, Woods lamp examination, stains, culture media etc. related to the cutaneous diagnosis independently.
- PO19:** To interpret histopathology of common skin diseases.
- PO20:** Should be trained in taking skin biopsy and nail biopsy.
- PO21:** Should be able to perform chemical peels, manual dermabrasion, skin punch grafting and wound dressing independently.

PO22: Able to perform chemical cauterization, cryotherapy, patch and photo patch test, slit smears and tissue smears.

PO23: Should be competent in the clinical approach to the patient of STDs and HIV/AIDS.

PO24: Able to diagnose and manage cases of leprosy and lepra reaction.

1.3.4 Mapping of Program Outcome Vs Program Educational Objectives

	PEO1	PEO2	PEO3	PEO4	PEO5	PEO6	PEO7	PEO8	PEO9	PEO10
PO1	3	1	-	-	-	-	-	-	-	-
PO2	1	2	-	1	1	-	1	-	-	-
PO3	1	2	-	1	1	-	1	-	-	-
PO4	2	2	-	2	1	-	1	-	2	-
PO5	1	3	2	2	3	1	2	1	1	1
PO6	1	3	-	2	1	1	1	-	-	-
PO7	1	1	3	-	1	1	-	-	-	-
PO8	-	-	3	-	-	-	-	3	-	2
PO9	-	-	-	-	-	1	-	-	-	-
PO10	-	-	-	-	-	3	-	-	-	-
PO11	-	-	-	-	-	2	-	-	-	-
PO12	-	-	-	-	-	3	-	-	-	-
PO13	-	-	-	-	-	2	-	-	-	-
PO14	-	-	-	-	-	-	3	-	-	-
PO15	1	2	-	2	1	1	-	-	-	1
PO16	2	2	1	1	1	1	1	1	1	1
PO17	3	3	2	3	1	1	-	-	-	-
PO18	2	2	3	2	-	1	-	-	-	-
PO19	2	2	2	1	1	1	-	-	-	-
PO20	2	2	3	1	1	1	-	-	-	-
PO21	2	2	3	1	1	1	-	-	-	-
PO22	2	2	3	1	1	1	-	-	-	-
PO23	1	1	2	2	1	1	1	-	3	-
PO24	1	3	1	1	2	1	1	-	3	-

School: SMSR		Batch:
Program: MD Dermatology		Current Academic Year: 2019-20
1	Programme Code	SMS1301

Teaching methodology:

A list of teaching and learning activities designed to facilitate students acquire essential knowledge and skills outlined is given below.

1. Lectures: Lectures are to be kept to a minimum. They may, however, be employed for teaching certain topics. Lectures may be didactic or integrated. a) Didactic Lectures: Few topics are suggested as examples:

1) Bio-statistics 2) Use of library 3) Research Methodology 4) Medical code of Conduct and Medical Ethics 5) National Health and Disease Control Programmes 6) Communication Skills
These topics may preferably be taken up in the first few weeks of the first year.

b) Integrated Lectures: Some of the topics may be taken up by multidisciplinary teams eg. Jaundice, Diabetes mellitus, Thyroid etc.

2. Journal Club & Subject seminars: Both are recommended to be held once a week. All PG students are expected to attend and actively participate in discussion and enter relevant details in the Log Book. Further, every post graduate student must make a presentation from the allotted journal(s), selected articles at least four times a year. The presentations would be evaluated and would carry weightage for internal assessment.

3. Student Symposium: Recommended as an optional multi-disciplinary programme. The evaluation may be similar to that described for subject seminar.

4. Ward Rounds: Ward rounds may be service or teaching rounds. a) Service Rounds: Post graduate students and Interns should be responsible for everyday care of the patients. Newly admitted patients should be worked up by the PGs and presented to the seniors the following day. b) Teaching Rounds: Every unit should have 'grand rounds' for teaching purpose. A diary (log book) should be maintained for day to day activities by the students. Entries of (a) and (b) should be made in the Log book. Log books shall be checked and assessed periodically by the faculty members imparting the training. 15

5. Clinical Case Presentations: Minimum of 5 cases to be presented by every post graduate student each year. They should be assessed using check lists and entries made in the log book

6. Clinico-Pathological Conference (CPC): Recommended once a month for all post graduate students. Presentation is to be done by rotation. If cases are not available, it could be supplemented by published CPCs.

7. Inter-Departmental Meetings: Strongly recommended particularly with Departments of Pathology and Radio-Diagnosis at least once a week. These meetings should be attended by post graduate students and relevant entries must be made in the Log Book. Pathology: A dozen interesting cases may be chosen and presented by the post graduate students and discussed. The staff of Pathology department would then show the slides and present final diagnosis. In these sessions, the advances in immuno-histochemical techniques can be discussed. Radiodiagnosis: Interesting cases and imaging modalities should be discussed. 8. Teaching Skills: The post graduate students shall be required to participate in the teaching and training programme of undergraduate students and interns.

9. The post graduate students should undertake audit, use information technology tools and carry out research, both basic and clinical, with the aim of publishing the work and presenting the same at various scientific fora.

10. Continuing Medical Education Programmes (CME): At least two CME programmes should be attended by each student during the MD programme.

11. Conferences: The student should attend courses, conferences and seminars relevant to the speciality.

12. A postgraduate student of a postgraduate degree course in broad specialities/super specialities 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.

13. Department should encourage e-learning activities.

14. Rotation: Clinical Postings A major tenure of posting should be in the Department of Dermatology. It should include care of in-patients, out-patients, special clinics like STD clinic, leprosy clinic, vitiligo clinic and maintenance of case records for both in- and out-patients. 16 A

short posting for 2-4 weeks in the Department of Medicine is to be arranged for exposure to Emergency Medicine and Resuscitation.

15. Clinical meetings: There should be intra - and inter- departmental meetings for discussing uncommon / interesting medical problems. Each student must be asked to present a specified number of cases for clinical discussion, perform procedures/tests/operations/present seminars/review articles from various journals in inter-unit/interdepartmental teaching sessions. These should be entered in a Log Book; log books should be checked and assessed periodically by the faculty members imparting the training.

16. Thesis writing: Thesis writing is compulsory. All MD students are required to carry out work on a selected research project under the guidance of a recognized post graduate teacher, the result of which shall be written up and submitted in the form of a Thesis. During the training programme, patient safety is of paramount importance, therefore, skills are to be learnt initially on the models, later to be performed under supervision followed by performing independently; for this purpose, provision of surgical skills laboratories in medical colleges is mandatory.

ASSESSMENT FORMATIVE ASSESSMENT, i.e., during the training may be as follows: Formative assessment should be continual and should assess medical knowledge, patient care, procedural & academic skills, interpersonal skills, professionalism, self directed learning and ability to practice in the system. Quarterly assessment during the MD training should be based on:

1. Journal based / recent advances learning
2. Patient based /Laboratory or Skill based learning
3. Self directed learning and teaching

4. Departmental and interdepartmental learning activity 5. External and Outreach Activities / CMEs
SUMMATIVE ASSESSMENT, i.e., at the end of training The summative examination would be carried out as per the Rules given in POSTGRADUATE MEDICAL EDUCATION REGULATIONS, 2000. The examination shall be in three parts:

1. Thesis 17 Thesis shall be submitted at least six months before the Theory and Clinical / Practical examination. The thesis shall be examined by a minimum of three examiners; one

internal and two external examiners, who shall not be the examiners for Theory and Clinical examination. A post graduate student shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the Thesis by the examiners.

2. Theory Examination: There shall be four papers each of three hours duration. Each paper shall consist of two long essay questions, three short essay questions and four short notes. These are: 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

3. Clinical / Practical and viva voce Examination Practical examination should be taken to assess competence and skills of techniques and procedures and should consist of two long cases, two short cases and 10 spots. During oral/viva voce examination, student should be evaluated for Interpretation of data, instruments, clinical problems, radiological and biochemical investigations, slides, drugs, X-rays etc.

Recommended Reading: Books (latest edition) • Sexually Transmitted Diseases - Sharma V K • IADVL Text book of Dermatology - R G Walia • IAL Textbook of Leprosy - H Kar • Bologna "Textbook of Dermatology" • Text Book of Dermatology, Wilkinson/Ebling/Rook, 4 Volumes, Oxford • Text Book of Dermatology, Samuel L. Moschelia M.D. Harry J. Hurlly M.D., 2 Volumes • Histopathology of the Skin, Walter - F. Lever- Gundula Schaumburg Lever • Atlas of Dermatology, 2 Volumes, Bhalani Publishing House, Dadar, Mumbai. • Diseases of the skin, Larry L Arnold Richard 13-Dom William D. James, Andrews • Differential Diagnosis in Dermatology, Satish S. Savant, Radha Atalshah, Deepak Gore, Richard Ashan, Barbara Lepdard

Annexure I

Postgraduate Students Appraisal Form Pre / Para /Clinical Disciplines

Name of the Department/Unit :

Name of the PG Student :

Period of Training : FROM.....TO.....

Sr. No.	PARTICULARS	Not Satisfactory	Satisfactory	More Than Satisfactory
		1 2 3	4 5 6	7 8 9

1	Journal based / recent advances learning				
2	. Patient based /Laboratory or Skill based learning				
3	Self directed learning and teaching				
4	Departmental and interdepartmental learning activity				
5	External and Outreach Activities /				
6	CMEs				
7	Thesis / Research work				
8	Log Book Maintenance				

Publications
Yes/ No

 Remarks* _____

*REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended.

SIGNATURE OF ASSESSEE

SIGNATURE OF CONSULTANT

SIGNATURE OF HOD