Dayananda Sagar College of Dental Sciences

MDS – COURSE OUTCOMES (COs)

PRINCIPAL
Dayananda Sagar College of Dental Sciences
Kumaraswamy Layout,
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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES,
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru- 560078

MDS-COURSE OUTCOMES (MDS-COs)

Name of the programme	-Master in Dental Surgery
Name of the institution	-Dayananda Sagar College of Dental Sciences (DSCDS), Bengaluru
Course outcome proposed by	-Academic Advisory Council-DSCDS
Course outcome approved by	-Internal Quality Assurance Cell-DSCDS
Course approved by	- Dental Council of India (Regulating body)
Affiliated to	**– Rajiv Gandhi University of Health Sciences**
Date of approval by AAC	**- 18-01-2018**
Date of IQAC approval	- 17-02-2021

MDS PROSTHODONTICS-COURSE OUTCOMES

(MDSPROSTHO-COs)

The MDS program is a three-year academic program encompassing courses covering basic sciences and dental specialties.

PROGRAMME STRUCTURE: PROSTHODONTICS INCLUDING CROWN AND BRIDGE

MDS PCB 1: Part-I Paper-I: Applied Basic Sciences: Applied anatomy, embryology, growth and Development Genetics, Immunology, anthropology, Physiology, nutrition and Biochemistry, Pathology and Microbiology, virology, applied pharmacology, Research Methodology and bio statistics, Applied Dental anatomy and histology, Oral pathology & oral Microbiology, Adult and geriatric psychology. Applied dental materials.

MDS PCB 2: Part-II Paper-I: Removable Prosthodontics and Implant supported prosthesis (Implantology), Geriatric dentistry and Crania Facial Prosthodontics

MDS PCB 3: Part-II Paper-II: Fixed Prosthodontics, occlusion, TMJ and esthetics.

MDS PCB 4: Part II Paper-III: Descriptive and analyzing type question

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PROGRAMME OUTCOMES:

The intended learning outcomes for the MDS Prosthodontics including Crown and Bridge program are as follows:

A) KNOWLEDGE AND UNDERSTANDING: KU

At the end of academic program, the post graduate students should have acquired the following outcomes during the period of training.

KU1. Able to describe the concepts of growth and development of orofacial structures.

KU2. Able to Describe the clinical features, knowledge of relevant clinical investigations required, diagnosis and management of loss of oro-facial structures.

KU3. Should have knowledge regarding age related changes that contribute to the treatment planning.

KU4. Should have the thorough knowledge of various treatment modalities that can be specifically applied to restoration of form and function of oro-facial complex.

KU5. Knowledge and understanding of the sterilization and disinfection protocol.

B) PSYCHOMOTOR SKILLS: P

P1. Excell in manipulation of various dental materials and operation of laboratory equipments.

P2. Preclinical skills as a precursor to treating patients.

P3. Students should be able to treat complex cases and interdisciplinary cases.

P4. Fabrication of removable prosthesis, fixed prosthesis (tooth supported & implant supported), maxillofacial prosthesis, TMD appliances and other modified prosthesis that are patient specific.

P5. Should be able to use software and information technology to carry out digital treatment simulation and planning of advanced and complex treatments.

C) ATTITUDES AND VALUES: AV

AV1. Identify social, economic, environmental, and emotional determinants in each case and take them into account for planning treatment

AV2. Should be proficient in adult and geriatric psychology to communicate and understand the psychological problems associated with facial esthetics and function.

AV3. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

AV4. Develop communication skills to explain various treatment options available, its pros and cons and to obtain a true informed consent from the patient

AV5. Apply high moral and ethical standards while carrying out the procedures.

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MDS PERIODONTOLOGY-COURSE OUTCOMES (MDSPERIO-COs)

The MDS programme is a three year academic programme encompassing courses covering basic sciences and dental specialties.

PROGRAM STRUCTURE: Periodontology

The MDS Periodontology programme comprises of the following courses:

MDS PER 1 : Part- I Paper-I: Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

MDS PER 2 : Part-II Paper I: Normal Periodontal structure, Etiology and Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics

MDS PER 3 : Paper II: Periodontal diagnosis, therapy and Oral implantology

MDS PER 4 : Paper III: Descriptive and analysing type question

PROGRAMME OUTCOMES:

The intended learning outcomes for the MDS Periodontology programme are as follows:

A) KNOWLEDGE AND UNDERSTANDING: KU

At the end of academic programme, the post graduate students should have acquired the following outcomes during the period of training.

KU1. To throughly understand the applied aspects of basic Sciences which comprises applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology and Pharmacology.

KU2. Able to thoroughly understand the normal anatomy and functions of periodontium, competent to differentiate periodontal health from disease.

KU 3. To have an understanding of etiopathogenesis of periodontal diseases for early diagnosis ,prevention and management.

KU5. Able to Identify the various risk factors, systemic conditions that influences and prognostic factors associated with periodontal diseases for creating awareness and motivating the patient to maintain stable periodontal health.

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KU6. Able to accurately diagnose the periodontal status of the patient to develop a comprehensive treatment plan for the patient's needs and to understand Principals of Surgery and Medical Emergencies.

KU7.Able to recognize conditions that may be outside the area of Speciality or competence and refer them to an appropriate Specialist.

KU8. To update by attending courses, conferences and seminars relevant to periodontics and also carry out research activity with the aim of publishing work in scientific journals

KU9. Able to develop knowledge, Clinical and teaching skill in the science and practice of Oral Implantology

KU10. To sensitize students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

B) PSYCHOMOTOR SKILLS: P

P1. Able to record proper clinical history, thorough examination of intra oral, extra oral, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis

P2. Ability to perform various non surgical and surgical periodontal procedures independently

P3 Ability for an effective motivation and education regarding periodontal disease maintenance after the treatment

P4. To be able to identify the various mucogingival deformities and perform the desired techniques to achieve esthetically and functionally optimal results .

P5. Should be able to analyse the indications and perform various laser assisted periodontal and peri implant surgical procedures,learn the art of using microscopes to perform all Microsurgical periodontal procedures.

C)ATTITUDES AND VALUES: AV

AV1. Able to adapt Human values, ethical practice to communication abilities

AV2. To Apply high moral and ethical standards while carrying out human or animal studies

AV3. Respect patients rights and privileges, including patients right to information and right to seek a second opinion.

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MDS ORAL AND MAXILLOFACIAL OUTCOMES(MDSOMFS-COs)

The MDS programme is a three year academic programme encompassing courses covering basic sciences and dental specialties.

PROGRAM STRUCTURE : ORAL & MAXILLOFACIAL SURGERY

The MDS Oral & Maxillofacial Surgery programme comprises of the following courses:

MDS OMS 1: Part-I Paper-I : Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.

MDS OMS 2: Part- II: Paper-I : Minor Oral Surgery and Trauma

MDS OMS 3: Paper-II : Maxillo-facial Surgery

MDS OMS 4: Paper-III : Descriptive and analysing type question

PROGRAMME OUTCOMES:

The intended learning outcomes for the MDS Oral and maxillofacial surgery programme are as follows:

A) KNOWLEDGE AND UNDERSTANDING: KU

At the end of academic programme, the post graduate students should have acquired the following outcomes during the period of training.

KU1) **To** have acquired adequate knowledge and understanding of the etiology, patho physiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature.

KU2) To have understood the general surgical principles like pre and post surgical management, particularly evaluation, post surgical care, fluid and electrolyte management, blood transfusion and post surgical pain management.

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KU3) Understanding of basic sciences relevant to practice or oral and maxillofacial surgery.

KU4)Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region.

KU5)Essential knowledge of personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.

PSYCHOMOTOR SKILLS: P

P1) To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpn them and to arrive at a reasonable diagnosis about the surgical condition.

P2) To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically (or by other means of the oral and Maxillofacial and the related area).

P3)Capable of providing care for maxillofacial surgery patients.

ATTITUDES AND VALUES: AV

AV1) Develop attitude to adopt ethical principles in all aspect of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.

AV2) Willing to share the knowledge and clinical experience with professional colleagues.

AV3) Wiling to adopt new techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient

AV4) Respect patient's right and privileges, including patients right to information and right to seek a second opinion.

AV5) Develop attitude to seek opinion from an allied medical and dental specialists as and when required.

AV6) Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time

AV7) Develop the ability to communicate with professional colleagues.

AV8) Develop ability to teach undergraduates.

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MDS CONSERVATIVE DENTISTRY AND ENDODONTICS

The MDS programme is a three year academic programme encompassing courses covering basic sciences and dental specialties.

PROGRAM STRUCTURE : CONSERVATIVE DENTISTRY AND ENDODONTICS

The MDS conservative dentistry and endodontics programme comprises of the following courses:

MDS CDE: Part-I Paper-I: Applied Basic Sciences: Applied anatomy of head and neck, Anatomy and development of teeth, Applied physiology, Pathology, Microbiology, Pharmacology, Biostatistics, Research methodology, Applied dental materials.

MDS CDE: Part-II Paper-I: Conservative dentistry – management of dental caries and non- carious lesions, occlusion, hand and rotary cutting instruments, direct and indirect restorations, restorative techniques, aesthetic dentistry including smile designing, minimal interventional dentistry, CAD-CAM, clinical photography.

MDS CDE: Part-II Paper-II- Endodontics : Pulp and periapical biology and pathology, endodontic microbiology, case selection diagnosis and treatment planning, endodontics treatments, lasers, multidisciplinary approach, magnification, regenerative endodontics.

MDS CDE: Part II-Paper III: Essays (Descriptive and analyzing type)

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PROGRAMME OUTCOMES:

The intended learning outcomes for the MDS conservative dentistry and endodontics programme are as follows:

A) KNOWLEDGE AND UNDERSTANDING: KU

KU-1. Demonstrate understanding of basic sciences relevant to specialty.

KU-2. Describe etiology, pathophysiology, principles of diagnosis and management of common problems within the specialty.

KU-3. Identify social, economic, environmental and emotional determinants of the patients and take them into account for treatment planning.

KU-4. Recognize conditions that may be outside the area of specialty or competence and to refer them to the concerned specialist.

KU-5. Update knowledge by self study and by attending courses, conferences and seminars pertaining to specialty.

KU-6. Undertake audit, use information technology and carry out research in both basic and clinical subjects with the aim of publishing or presenting the work at various scientific gathering.

B) PSYCHOMOTOR SKILLS: P

P1. Obtain thorough clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition.

P2. Acquire adequate skills and competence in performing various procedures in the conservative dentistry and endodontics.

P3. Students should be able to treat complex cases and interdisciplinary cases in conservative dentistry including aesthetics and endodontics.

P4. Should be able to use software and information technology to carry out digital treatment simulation and planning of advanced and complex treatments.

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C) ATTITUDES AND VALUES: AV

AV1. Adopt ethical principles in all aspects of practice.

AV2. Foster professional honesty and integrity.

AV3. Deliver patient care irrespective of social status, caste, creed or religion of the patient.

AV4. Develop communication skills, to explain various options available and obtain an informed consent from the patient.

AV5. Provide leadership and get the best out of his team in a congenial working atmosphere.

AV6. Follow high moral and ethical standards while carrying out human or animal research.

AV7. Be humble and accept the limitations in their knowledge and skill and to ask for help from colleagues when needed.

AV8. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

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MDS ORTHODONTICS-COURSE OUTCOMES (MDSORT-COs)

The MDS programme is a three year academic programme encompassing courses covering basic sciences specific to orthodontics and clinical curriculum specific to orthodontic specialty.

PROGRAM STRUCTURE : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

The MDS orthodontics and dentofacial orthopedics programme comprises of the following courses:

MDS ORT 1: Part-I Paper-I: Applied Basic Sciences: Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology.

MDS ORT 2: Part-II Paper-I: Orthodontic history, Concepts of occlusion and esthetics, Child and Adult Psychology, Etiology and classification of malocclusion, Dentofacial Anomalies, Diagnostic procedures and treatment planning in Orthodontics, Practice management in Orthodontic

MDS ORT 3: Paper II: Clinical Orthodontics

MDS ORT 4: Paper III: Descriptive and analyzing type

COURSE OUTCOMES:

The intended learning outcomes for the MDS Orthodontics programme are as follows:

D) KNOWLEDGE AND UNDERSTANDING: KU

At the end of academic programme, the post graduate students should have acquired the following outcomes during the period of training.

KU1. Able to describe the concepts of growth and development of orofacial structures and the impact of etiological factors on growth.

KU2. Able to Describe the clinical features, knowledge of relevant clinical investigations required, diagnosis and management of common skeletal and dental orthodontic problems in adults and children.

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KU3. Should be able to compare and contrast the growth status of the child patient with different skeletal maturity indicators .

KU4. Should have the thorough knowledge of various prescriptions of fixed orthodontic appliance used in orthodontics and biomechanical principals involved in controlling these appliances.

KU5. Should be able to discuss the biological basis at cellular level involved in orthodontic tooth movement and skeletal changes at sutures and joints during growth modulation process.

E) PSYCHOMOTOR SKILLS: P

P1. Perform various orthodontic archwire bendings including loops, wire bendings for different stages of treatment, auxillaries and wire components for myofunctional appliances.

P2. Demonstrate the optimal placement of orthodontic appliance on patients dentition.

P3. Students should be able to treat complex cases and interdisciplinary cases in orthodontics.

P4. Fabricate the myofunctional appliances, appliances for transvers skeletal corrections and study models to perform model analysis.

P5. Should be able to use software and information technology to carry out digital treatment simulation and planning of advanced and complex treatments.

F) ATTITUDES AND VALUES: AV

AV1. Identify social, economic, environmental and emotional determinants in a given case and take them into account for planning treatment

AV2. Should be proficient in adult and child psychology to communicate and understand the psychological problems associated with facial esthetics.

AV3. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

AV4. Develop communication skills, in particular and skill to explain various options available or requirement of extractions or surgery in management of problem and to obtain a true informed consent from the patient

AV5. Apply high moral and ethical standards while carrying out human or animal experiments.

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MDS PUBLIC HEALTH DENTISTRY

-COURSE OUTCOMES (MDSPHD-COs)

The MDS programme is a three year academic programme encompassing courses covering basic sciences and dental specialties. This is followed by a year of compulsory rotatory internship for gaining experience in clinical practice, patient education and practice management.

PROGRAM STRUCTURE : PUBLIC HEALTH DENTISTRY

The MDS Public Health Dentistry comprises of the following courses:

MDS PHD 1: Part-I Paper-I: Applied Basic Sciences: Applied anatomy and histology Applied Physiology and Biochemistry, Applied Pathology and Microbiology, Oral Pathology, Physical and Social Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology.

MDS PHD 2: Part-II Paper-I: Public Health

MDS PHD 3: Paper II: Dental Public Health

MDS PHD 4: Paper III: Descriptive and analyzing type

PROGRAMME OUTCOMES:

The intended learning outcomes for the MDS Public Health Dentistry programme are as follows:

D) KNOWLEDGE AND UNDERSTANDING: KU

At the end of academic programme, the post graduate students should have acquired the following outcomes during the period of training.

KU1. Apply basic sciences knowledge regarding, etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.

KU2. Identify social, economic, environmental and emotional determinants in a given individual, patient or a community for the purpose of planning and execution of Community Oral Health programme.

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KU3. Ability to conduct oral health surveys in order to identify all the oral health problems affecting the community and find solutions using multidisciplinary approach. Ability to act as a consultant in community oral health. Teach, guide and take part in research (both basic and clinical). Present and publish the outcome at various scientific conferences and journal, both national and international levels.

E) PSYCHOMOTOR SKILLS: P

P1. Take history, conduct clinical examination including all diagnostic procedures to arrive at diagnosis at the individual level and conduct survey of the community at state and national level of all conditions related to oral health to arrive at community diagnosis. Plan and perform all necessary treatments, prevention and promotion of oral health at the individual and community level.

P2. Plan appropriate community oral health programmes, conduct the programme and evaluate at the community level.

P3. Ability to make use of knowledge of epidemiology to identify causes and appropriate preventive and control measures.

P4. Develop appropriate person power at various levels and their effective utilization.

P5. Conduct surveys and use appropriate methods to impart oral health education.

P6. Develop ways of helping the community towards easy payment plan and followed by evaluation for their oral health care needs.

P7. Develop the planning, implementation, evaluation and administrative skills to carry out successfull community oral health programmes.

F) ATTITUDES AND VALUES: AV

AV1. Adopt ethical principles in all aspects of Community Oral Health Activities.

AV2. To apply ethical and moral standards while carrying out epidemiological researches.

AV3. Develop communication skills, in particular to explain the causes and prevention of diseases to the patient.

AV4. Be humble and accept the limitations in his knowledge and skill and ask for help from colleagues when needed and promote teamwork approach.

AV5. Respect patients' rights and privileges including patients' right to information and right to seek a second opinion.

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MDS ORAL MEDICINE AND RADIOLOGY

-COURSE OUTCOMES (MDSOMR-COs)

The MDS programme is a three year academic programme encompassing courses covering basic sciences and dental specialties.

PROGRAM STRUCTURE : ORAL MEDICINE AND RADIOLOGY

The MDS Oral Medicine and Radiology programme comprises of the following courses:

MDS OMR 1: Part-I Paper-I: Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics

MDS OMR 2: Part-II Paper-I: Oral and Maxillofacial Radiology

MDS OMR 3: Paper II: Oral Medicine, therapeutics and laboratory investigations

MDS OMR 4: Paper III: Descriptive and analyzing type

PROGRAMME OUTCOMES:

The intended learning outcomes for the MDS Oral Medicine and Radiology programme are as follows:

G) KNOWLEDGE AND UNDERSTANDING: KU

At the end of academic programme, the post graduate students should have acquired the following outcomes during the period of training.

KU1. Should have acquired Theoretical, Clinical and practical knowledge of all oral mucosal lesions, skeletal involvement of maxillofacial region.

KU2. Should have thorough knowledge of diagnostic procedures pertaining to oral and maxillofacial pathologies and interpretation of their results.

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KU3. Should have thorough knowledge of medical management of Oro-mucosal conditions and other pathologies affecting the Oro-facial Region

KU4. Should be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management

KU5. Should have acquired adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.

KU6. Should have acquired basic knowledge in counselling patients in tobacco cessation

KU7. Should have acquired knowledge about latest information of imaging modules and interpreting them

KU8. Should have adequate knowledge about radiation health hazards, radiations safety and protection.

KU9. Should have gained adequate knowledge of various intra-oral and extra-oral radiographic procedures, TMJ radiography, Sialography and CBCT.

KU10. Should be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.

KU11. Should be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

PSYCHOMOTOR SKILLS: P

P1. Diagnostic skill in recognition of oral diseases with radiographic diagnosis and their management.

P2. Should be able to take Intra-oral, extraoral Radiographs and CBCT

P3. Should be able to use software and information technology to carry out digital diagnostic planning and analysis.

P4. Should be able to perform chair-side diagnostic procedures, biopsy

P5. Should be able to Administer medications through IV, IM, Intralesional procedures for the medical management of various oral and maxillofacial conditions.

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P6. Should have acquired Research skills in handling scientific problems pertaining to oral treatment

P4. Should have acquired Clinical and Didactic skills in encouraging younger doctors to attain learning objectives

H) ATTITUDES AND VALUES: AV

AV1. Should have inculcated positive mental attitude and the persistence of continued learning.

AV2. Identify social, economic, environmental and emotional determinants in a given case and take them into account for planning treatment

AV3. Should be proficient in adult and child psychology to communicate and understand the psychological problems associated with Oro-facial pathologies.

AV4. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

AV5. Develop communication skills, in particular and skill to explain the problem, various options available in management of problem and to obtain a true informed consent from the patient

AV6. Apply high moral and ethical standards while carrying out human or animal experiments.

EXAMINATIONS._

(a) ELIGIBILITY:

The following requirements shall be fulfilled by the candidate to become eligible for the final examination. (i) Attendance: Every candidate shall secure (80% attendance during each academic year). (ii) Progress and conduct: Every candidate shall participate in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year. (iii) Work diary and log book: Every candidate shall maintain a work diary and log book

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(b) UNIVERSITY EXAMINATION.

The university examination shall consist of theory, practical and clinical examination and viva-voce and Pedagogy.

(c) DISSERTATION:

Every candidate appearing for the post-graduate degree examination shall at least six months prior to the examinations, submit with his form for examination.

(d) CLINICAL/PRACTICAL EXAMINATION:

Clinical/practical examination is designed to test the clinical skill, performance and competence of the candidate in skills such as communication, clinical examination, medical/dental procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist.

(e) VIVA-VOCE EXAMINATION:

Viva voce examination aims at assessing the depth of knowledge, logical reasoning, confidence and communication skill of the students.

(f) SCHEME OF EXAMINATION:

A. Theory: Part-I: Basic Sciences Paper - 100 Marks Part-II: Paper-I, Paper-II & Paper-III - 300 Marks (100 Marks for each Paper)

Written examination shall consist of Basic Sciences Paper (Part-I) of three hours duration and will be conducted at the end of First year of MDS course. Part-II Examination will be conducted at the end of Third year of MDS course. Part-II Examination will consist of Paper-I, Paper-II & Paper-III, each of three hours duration. Paper-I & Paper-II shall consist of two long answer questions carrying 25 marks each and five questions carrying 10 marks each. Paper III will be on Essays. In Paper-III three Questions will be given and student has to answer any two questions.

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B. Practical / Clinical Examination : 200 Marks

1st Day

- Clinical Case based procedures and display of work in examination by student.

2nd Day

- Continuation of Clinical Case based procedures and display of work in examination by student.

C. Viva Voce : 100 Marks

- Viva-Voce examination : 80 marks
- Pedagogy Exercise : 20 marks

  A topic be given to each candidate in the beginning of clinical examination. He/she is asked to make a presentation on the topic for 8-10 minute.

Chairman, Academic Advisory Council

CO-Ordinator, IQAC

Member Secretary, Academic Advisory Council

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