

MDS COURSE REGULATIONS

AIM:

To train the dental graduates so as to ensure higher level of competence in both general and specialty areas of Prosthodontics and prepare candidates with teaching, research and clinical abilities including prevention and after care in Prosthodontics – removable dental prosthodontics, fixed dental prosthodontics (Crown &Bridge), implantology, maxillofacial prosthodontics and esthetic dentistry.

GENERAL OBJECTIVES OF THE COURSE:

Training program for the dental graduates in Prosthetic dentistry– removable dental prosthodontics, fixed dental prosthodontics (Crown & Bridge), implantology, maxillofacial prosthodontics and esthetic dentistry is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills and ability to perform research with a good understanding of social, cultural, educational and environmental background of the society.

- To have adequate acquired knowledge and understanding of applied basic and systemic medical sciences, both in general and in particularly of head and neck region.
- The postgraduates should be able to provide Prosthodontic therapy for patients with competence and working knowledge with understanding of applied medical, behavioral and clinical science, that are beyond the treatment skills of the general BDS graduates and MDS graduates of other specialties,
- To demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment, after care and referrals to deliver comprehensive care to patients.

KNOWLEDGE:

The candidate should possess knowledge of applied basic and systemic medical sciences.

- On human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology Microbiology & virology; health and diseases of various systems of the body (systemic) principles in surgery and medicine, pharmacology, nutrition, behavioral science, age changes, genetics, Immunology, Congenital defects & syndromes and Anthropology, Bioengineering, Bio-medical & Biological Principles
- The student shall acquire knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the manipulation characteristics, compare with other materials available, be adept with recent advancements of the same.



- Students shall acquire knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region.
- Ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning, impressions, jaw relations, utility of face bows, articulators, selection and positioning of teeth, teeth arrangement for retention, stability, esthetics, phonation, psychological comfort, fit and insertion.
- Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.
- Understanding of all the applied aspects of achieving physical, psychological well-being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function of Cranio mandibular system for a quality life of a patient.
- Ability to diagnose and plan treatment for patients requiring Prosthodontic therapy
- Ability to read and interpret radiographs, and other investigations for the purpose of diagnosis and treatment planning.
- The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology. Tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion, craniofacial esthetics, and biomaterials, craniofacial disorders, problems of psychogenic origin.
- Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.
- Should have ability to diagnose failed restoration and provide prosthodontic therapy and after care.
- Should have essential knowledge on ethics, laws, and Jurisprudence and Forensic Odontology in Prosthodontics.
- Should know general health conditions and emergency as related to prosthodontics treatment like allergy of various materials and first line management of aspiration of prosthesis
- Should identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.



- Should identify cases, which are outside the area of his specialty / competence, refer them to appropriate specialistsand perform interdisciplinary case management.
- To advice regarding case management involving surgical and interim treatment
- Should be competent in specialization of team management in craniofacial prosthesis design.
- To have adequate acquired knowledge, and understanding of applied basic, and systemic medical science knowledge in general and in particular to head and neck regions.
- Should attend continuing education programmes, seminars and conferences related to Prosthodontics, thus updating himself/herself.
- To teach and guide his/her team, colleagues and other students.
- Should be able to use information technology tools and carry out research both in basic and clinical areas, with the aim of publishing his/ her work and presenting his/her work at various scientific forums.
- Should have an essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of waste, keeping in view the risk of transmission of potential communicable and transmissible infections like Hepatitis and HIV.
- Should have an ability to plan and establish Prosthodontics clinic/hospital teaching department and practice management.
- Should have a sound knowledge of the applications in pharmacology, effects of drugs on oral tissues and systems of body and in medically compromised patients.

SKILLS:

- The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiographs, diagnose the ailment, plan the treatment, communicate it with the patient and execute it.
- To understand the prevalence and prevention of diseases of craniomandibular system related to prosthetic dentistry.
- The candidate should be able to restore lost functions of stomatognathic system like mastication, speech, appearance and psychological comforts by understanding biological, biomedical, bioengineering principles and systemic conditions of the patients to provide quality health care in the craniofacial regions.
- The candidate should be able to demonstrate good interpersonal, communication skills and team approach in interdisciplinary care by interacting with other specialties including medical specialty for planned team management



- of patients for craniofacial & oral acquired and congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psychogenic origins.
- Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area with a patient centered approach.
- Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT. Should and be able to plan and modify treatment plan based on radiographic findings
- Should be able to critically appraise articles published and understand various components of different types of articles and be able to gather the weight of evidence from the same
- To identify target diseases and create awareness amongst the population regarding Prosthodontic therapy.
- To perform Clinical and Laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis and have required dexterity & skill for performing clinical and laboratory procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics Prosthodontics.
- To carry out necessary adjunctive procedures to prepare the patient before prosthesis like
 tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis /
 prosthetic procedures To understand demographic distribution and target diseases of
 Cranio mandibular region related to Prosthodontics.

ATTITUDES:

- To adopt ethical principles in Prosthodontic practice, Professional honesty, credibility and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- Should be willing to share the knowledge and clinical experience with professional colleagues.
- Should develop an attitude towards quality, excellence, non-compromising in treatment.
- Should be able to self-evaluate, reflect and improve on their own.
- Should pursue research in a goal to contribute significant, relevant and useful information, concept or methodology to the scientific fraternity.
- Should be able to demonstrate evidence-based practice while handling cases
- Should be willing to adopt new methods and techniques in prosthodontics from time to time based on scientific research, which are in patient's best interest.
- Should respect patient's rights and privileges, including patient's right to information and right to seek second opinion.

COMMUNICATIVE ABILITIES:

- To develop communication skills, in particular and to explain treatment options available in the management.
- To provide leadership and get the best out of his / her group in a congenial working atmosphere.
- Should be able to communicate in simple understandable language with the
 patient and explain the principles of prosthodontics to the patient. He/ She should
 be able to guide and counsel the patient with regard to various treatment
 modalities available.
- To develop the ability to communicate with professional colleagues through various media like Internet, e-mails, videoconferences etc. to render the best possible treatment. Should demonstrate good explanatory and demonstrating ability as a teacher in order to facilitate learning among students

COURSE CONTENTS:

The course content has been identified and categorized as essential knowledge given below.

ESSENTIAL KNOWLEDGE:

The topics to be considered are Applied Basic Sciences, Oral and Maxillofacial Prosthodontics and Implantology

SYLLABUS & CURRICULUM

The syllabus for post-graduate course includes both Applied Basic Sciences and subjects of concerned specialty. The syllabus in Applied Basic Sciences shall vary according to the particular speciality, similarly the candidates shall also acquire adequate knowledge in other subjects related to their respective speciality.

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.

Part-II

Paper-I : Removable Prosthodontics and Implant supported Prosthesis

(Implantology), Geriatric dentistry and Cranio facial Prosthodontics

Paper-II : Fixed Prosthodontics, occlusion, TMJ and esthetics.

Paper-III : Descriptive and analyzing type question



APPLIED BASIC SCIENCES:

Should develop thorough knowledge on the applied aspects of Anatomy, Embryology, Histology particularly head and neck, Physiology, Biochemistry, Pathology, Microbiology, Virology, Pharmacology, Health and systematic diseases principles in surgery medicine and Anesthesia, Nutrition, Behavioral sciences, age changes, genetics, Dental Material Science, congenital defects and Syndromes and Anthropology, Biomaterial Sciences, Bio-engineering and Bio-medical and Research Methodology as related to Masters degree Prosthodontics and Crown & Bridge including Implantology

It is desirable to have adequate knowledge in Bio-statistics, Research Methodology and use of computers to develop necessary teaching skills in the specialty of Prosthodontics including crown and bridge.

APPLIED ANATOMY OF HEAD AND NECK:

General Human Anatomy –Gross Anatomy, anatomy of Head and Neck in detail:Cranial and facial bones, TMJ and function, muscles of mastication and facial expression, muscles of head and neck including muscles of deglutition and tongue, arterial supply and venous drainage of the head and neck, anatomy of the Para nasal sinuses in relation to the Vth cranial nerve. General considerations of the structure and function of the brain, brief considerations of V, VII, XI, XII, cranial nerves and autonomic nervous system of the head and neck. The salivary glands, Pharynx, Larynx Trachea, Oesophagus, Functional Anatomy of masticatory muscles, Deglutition, speech, respiration, and circulation, teeth eruption, morphology, occlusion and function. Anatomy of TMJ, its movements and myofacial pain dysfunction syndrome.**Embryology** –Development of the face, tongue, jaws, TMJ, Paranasal sinuses, pharynx, larynx, trachea, esophagus, Salivary glands, Development of oral and Para oral tissues including detailed aspects of tooth formation.

Growth & Development – Facial form and Facial growth and development overview of Dentofacial growth process and physiology from fetal period to maturity and old age,. General physical growth, functional and anatomical aspects of the head, changes in craniofacial skeletal development, relationship between development of the dentition and facial growth.

Dental Anatomy –Anatomy of primary and secondary dentition, concept of occlusion, mechanism of articulation, and masticatory function. Detailed structural and functional study of the oral and Para oral tissues, normal occlusion, development of occlusion in deciduous mixed and permanent dentitions, root length, root configuration & tooth-numbering systems.

Histology –histology of enamel, dentin, Cementum, periodontal ligament and alveolar bone, pulpal anatomy, histology and biological consideration. Salivary glands and Histology of epithelial tissues including glands. Histology of general and specific connective tissue including bone, , Salivary glands, Histology of skin, oral mucosa, respiratory mucosa, connective tissue, bone, cartilage, cellular elements of blood vessels, blood, lymphatics, nerves, muscles, tongue and tooth.

Cell biology –Brief study of the structure and function of the mammalian cell Components of the cell and functions of various types of cells and their consequences with tissue injury.



APPLIED PHYSIOLOGY AND NUTRITION:

Introduction, Mastication, deglutition, digestion and assimilation, Homeostasis, fluid and electrolyte balance, blood composition, volume, function, blood groups and hemorrhage, Blood transfusion, circulation, Heart, Pulse, Blood pressure, capillary and lymphatic circulation. Shock, respiration, control, anoxia, hypoxia, asphyxia, artificial respiration. Endocrine glands in particular reference to pituitary, parathyroid and thyroid glands and sex hormones. Role of calcium and Vit D in growth and development of teeth, bone and jaws. Role of Vit. A, C and B complex in oral mucosal and periodontal health. Physiology and function of the masticatory system. Speech mechanism, mastication, swallowing and deglutition mechanism, salivary glands and Saliva. **Endocrines** – General principles of endocrine activity and disorders relating to pituitary, thyroid, pancreas, parathyroid, adrenals, gonads, including pregnancy and lactation. Physiology of saliva, urine formation, normal and abnormal constituents, Physiology of pain, Sympathetic and parasympathetic nervous system, neuromuscular co-ordination of the stomatognathic system.

Applied Nutrition – General principles, balanced diet, effect of dietary deficiencies and starvation, Diet, digestion, absorption, transportation and utilization & diet for elderly patients.

APPLIED BIOCHEMISTRY:

General principles governing the various biological activities of the body, such as osmotic pressure, electrolytic dissociation, oxidation-reductionCarbohydrates, proteins, liquids and their metabolism, Enzymes, Vitamins, and minerals, Hormones, Blood, Metabolism of inorganic elements, Detoxification in the body & anti-metabolites.

APPLIED PHARMACOLOGY AND THERAPEUTICS:

Dosage and mode of administration of drugs. Action and fate of drugs in the body, Drug addiction, tolerance and hypersensitive reactions, Drugs acting on the central nervous system, general anesthetics hypnotics, analeptics and tranquilizers. Local anesthetics, Chemotherapeutics and antibiotics, Antitubercular and anti-syphilitic drugs, Analgesics and antipyretics, Antiseptics, styptics, Sialogogues and antisialogogues, Haematinics, Cortisones, ACTH, insulin and other antidiabetics vitamins: A, D, B – complex group C, K etc. Chemotherapy and Radiotherapy. Drug regime for antibiotic prophylaxis and infectious endocarditis and drug therapy following dental surgical treatments like placement of implants, pre and peri prosthetic surgery

APPLIED PATHOLOGY:

Inflammation, repair and degeneration, Necrosis and gangrene, Circulatory disturbances, Ischaemia, hyperaemia, chronic venous congestion, oedema, thrombosis, embolism and infarction. Infection and infective granulomas, Allergy and hypersensitive reactions, Neoplasms; Classification of tumors, Carcinogenesis, characteristics of benign and malignant tumors, spread of tumors. Applied histo pathology and clinical pathology.



APPLIED MICROBIOLOGY:

Immunity, knowledge of organisms commonly associated with diseases of the oral cavity (morphology cultural characteristics etc) of strepto, staphylo, Clostridia group of organisms, Spirochaetes, organisms of tuberculosis, leprosy, diphtheria, actinomycosis and moniliasis etc. Virology, Cross infection control, sterilization and hospital waste management

APPLIED ORAL PATHOLOGY:

Developmental disturbances of oral and Para oral structures, Regressive changes of teeth, Bacterial, viral and mycotic infections of the oral cavity. Dental caries, diseases of pulp and periapical tissues, Physical and chemical injuries of the oral cavity, oral manifestations of metabolic and endocrine disturbances, Diseases of the blood and blood forming organism in relation to the oral cavity, Periodontal diseases, Diseases of the skin, nerves and muscles in relation to the Oral cavity.

LABORATORY DETERMINATIONS:

Blood groups, blood matching, R.B.C. and W.B.C. count, Bleeding and clotting time, PT, PTT and INR Smears and cultures – urine analysis and culture. Interpretation of RBS, Glycosylated Hb, GTT

BIOSTATISTICS:

Characteristics and limitations of statistics, planning of statistical experiments, sampling, collection, classification and presentation of data (Tables, graphs, pictograms etc) & Analysis of data, parametric and non-parametric tests

Introduction to Biostatistics - Scope and need for statistical application to biological data. Definition of selected terms – scale of measurements related to statistics, Methods of collecting data, presentation of the statistical diagrams and graphs.

Frequency curves, mean, mode, median, Standard deviation and co-efficient of variation, Correlation – Co-efficient and its significance, Binominal distributions normal distribution and Poisson's distribution, Tests of significance.

RESEARCH METHODOLOGY:

Understanding and evaluating dental research, scientific method and the behavior of scientists, understanding to logic – inductive logic – analogy, models, authority, hypothesis and causation,. Measurement and Errors of measurement, presentation of results, Reliability, Sensitivity and specificity diagnosis tests and measurements, Research Strategies, Observation, Correlation, Experimentation and Experimental design. Logic of statistical in(ter)ferences, balance judgements, judgement under uncertainty, clinical vs., scientific judgement, problems with clinical judgement, forming scientific judgements, the problem of contradictory evidence, citation analysis as a Means of literature evaluation, influencing judgement:



Protocol writing for experimental, observational studies, survey including hypothesis, PICO statement, aim objectives, sample size justification, use of control/placebo, standardization techniques, bias and its elimination, blinding, evaluation, inclusion and exclusion criteria.

APPLIED RADIOLOGY:

Introduction, radiation, background of radiation, sources, radiation biology, somatic damage, genetic damage, protection from primary and secondary radiation, Principles of X-ray production, Applied principles of radio therapy and after care.

ROENTGENOGRAPHIC TECHNIQUES:

Intra oral, extra oral roentgenography, Methods of localization digital radiology and ultra sounds. Normal anatomical landmarks of teeth and jaws in radiograms, temporomandibular joint radiograms, neck radiograms.

Use of CT and CBCT in prosthodontics

APPLIED MEDICINE:

Systemic diseases and (its) their influence on general health and oral and dental health. Medical emergencies like syncope, hyperventilation, angina, seizure, asthma and allergy/anaphylaxis in the dental offices – Prevention, preparation, medico legal consideration, unconsciousness, respiratory distress, altered consciousness, seizures, drug related emergencies, chest pain, cardiac arrest, premedication, prophylaxis and management of ambulatory patients, resuscitation, applied psychiatry, child, adult and senior citizens.

APPLIED SURGERY & ANESTHESIA:

General principles of surgery, wound healing, incision wound care, hospital care, control of hemorrhage, electrolyte balance. Common bandages, sutures, splints, shifting of critically ill patients, prophylactic therapy, bone surgeries, grafts, etc, surgical techniques, nursing assistance, anesthetic assistance. Principles in speech therapy, surgical and radiological craniofacial oncology, applied surgical ENT and ophthalmology.

APPLIED PLASTIC SURGERY:

Applied understanding and assistance in programs of plastic surgery for prosthodontics therapy.

APPLIED DENTAL MATERIALS:

- Students should have understanding of all materials used for treatment of craniofacial disorders
- Clinical, treatment, and laboratory materials, associated materials, technical considerations, shelf life, storage, manipulations, sterilization, and waste management.



- Students shall acquire knowledge of testing biological, mechanical and other physical properties of all materials used for the clinical and laboratory procedures in prosthodontic therapy.
- Students shall acquire full knowledge and practice of Equipments, instruments, materials, and laboratory procedures at a higher level of competence with accepted methods.

All clinical practices shall involve personal and social obligation of cross infection control, sterilization and waste management.

ORAL AND MAXILLOFACIAL PROSTHODONTICS AND IMPLANTOLOGY:

I. NON-SURGICAL ANDSURGICAL METHODS OF PROSTHODONTICS AND IMPLANTOLOGY

- a. Prosthodontic treatment for completely edentulous patients Complete dentures, immediate complete dentures, single complete dentures, tooth supported complete dentures & Implant supported Prosthesis for completely edentulous patients for typical and atypical cases.
- b. Prosthodontic treatment for partially edentulous patients: Clasp-retained acrylic and cast partial dentures, transitional dentures, immediate dentures, intra coronal and extra coronal precision attachments retained partial dentures & maxillofacial prosthesis for typical and atypical cases

Prosthodontic treatment for edentulous patients: - Complete Dentures and Implant supported Prosthesis.

Complete Denture Prosthesis – Definitions, terminologies, G.P.T., Boucher's clinical dental terminology

Scope of Prosthodontics – The Cranio Mandibular system and its functions, the reasons for loss of teeth, consequences of loss of teeth and treatment modality with various restorations and replacements.

- a) Edentulous Predicament, Biomechanics of the edentulous state, Supportmechanism for the natural dentition and complete dentures, Biological considerations, Functional and Para functional considerations, Esthetic, behavioral and adaptive responses, Temporomandibular joints changes.
- **b)** Effects of aging of edentulous patients –aging population, distribution andedentulism in old age, impact of age on edentulous mouth Mucosa, Bone, saliva, jaw movements in old age, taste and smell, nutrition, aging, skin and teeth, concern for personal appearance in old age.
- c) Sequelae caused by wearing complete denture –the denture in the oralenvironment Mucosal reactions, altered taste perception, burning mouth syndrome, gagging, residual ridge (reduction) resorption, denture stomatitis, flabby ridge, denture irritation hyperplasia, traumatic Ulcers, Oral cancer in denture wearers, nutritional deficiencies, masticatory ability and performance, nutritional status and masticatory functions.



- **d) Temporomandibular disorders in edentulous patients** –Epidemiology, etiology and management, Pharmacotherapy, Physical modalities, and Bio-behavioral modalities.
- e) Nutrition Care for the denture wearing patient –Impact of dental status onfood intake, Gastrointestinal functions, nutritional needs and status of older adults, Calcium and bone health, vitamin and herbal supplementation, dietary counseling and risk factor for malnutrition in patients with dentures and when teeth are extracted.
- f) Preparing patient for complete denture patients Diagnosis and treatment planning for edentulous and partially edentulous patients familiarity with patients, principles of perception, health questionnaires and identification data, problem identification, prognosis and treatment identification data, problem identification, prognosis and treatment planning contributing history patient's history, social information, medical status systemic status with special reference to debilitating diseases, diseases of the joints, cardiovascular disorders, diseases of the skin, neurological disorders, oral malignancies, climacteric, use of drugs, mental health mental attitude, psychological changes, adaptability, geriatric changes physiologic, pathological, pathological and intra oral changes. Intra oral health mucus membrane, alveolar ridges, palate and vestibular sulcus and dental health.

Data collection and recording, visual observation, radiography, palpation, measurement of sulci or fossae, extra oral measurement, the vertical dimension of occlusion, diagnostic casts. Specific observations – existing dentures, soft tissue health, hard tissue health – teeth, bone Biomechanical considerations – jaw relations, border tissues, saliva, muscular development – muscle tone, neuromuscular co-ordination, tongue, cheek and lips.

Interpreting diagnostic findings and treatment planning.

- **g) Pre prosthetic surgery** Improving the patients denture bearing areas andridge relations.
- **h) Non surgical methods** –rest for the denture supporting tissues, occlusal correction of the old prosthesis, good nutrition, conditioning of the patients musculature,
- I) Surgical methods –Correction of conditions, that preclude optimal prosthetic function hyperplastic ridge epulis fissuratum and papillomatosis, frenular attachments and pendulous maxillary tuberosities, ridge augmentation, maxillary and mandibular oral implants, corrections of congenital deformities, discrepancies in jaw size, relief of pressure on the mental foramen, enlargement of denture bearing areas, vestibuloplasty, ridge augmentation, replacement of tooth roots with Osseo integrated denture implants.
- j) Immediate Denture —Advantages, Disadvantages, Contraindications, Diagnosis, treatment planning and Prognosis, Explanation to the patient, Oral examinations, Examination of existing prosthesis, Tooth modification, Prognosis, Referrals/adjunctive care, oral prophylaxis and other treatment needs. First visit, preliminary impressions and diagnostic casts, management of loose teeth, custom trays, final impressions and master casts, two tray or sectional custom impression tray, location of posterior limit and jaw relation records, setting of the posterior denture teeth / verifying jaw relations and the patient try in. Laboratory phase, setting of anterior teeth, Wax contouring, flasking and boil out, processing and finishing, surgical templates, surgery and immediate denture insertion, post operative care and patient instructions, subsequent service for the patient on the immediate denture.



- **k) Over dentures** (tooth supported complete dentures)–indications andtreatment planning, advantages and disadvantages, selection of abutment teeth, loss of abutment teeth, tooth supported complete dentures. Non-coping abutments, abutment with copings, abutments with attachments, submerged vital roots, preparations of the retained teeth.
- I) Single Dentures: Single Mandibular denture to oppose natural maxillaryteeth, single complete maxillary denture to oppose natural Mandibular teeth to oppose a partially edentulous Mandibular arch with fixed prosthesis, partially edentulous Mandibular arch with removable partial dentures. Opposing existing complete dentures, preservation of the residual alveolar ridge, necessity for retaining maxillary teeth and preventing mental trauma.
- m) Art of communication in the management of the edentulous predicament Communication–scope, a model of communication, why communication is important? What are the elements of effective communication? special significance of doctor / patient communication, doctor behavior, The iatro sedative (doctor & act of making calm) recognizing and acknowledging the problem, exploring and identifying the problem, interpreting and explaining the problem, offering a solution to the problem for mobilizing their resources to operate in a most efficient way, recognizing and acknowledging the problem, interpreting and explaining the problem, offering a solution to the problem.
- n) Materials prescribed in the management of edentulous patients Denture base materials, General requirements of biomaterials for edentulous patients, requirement of an ideal denture base, chemical composition of denture base resins, materials used in the fabrication of prosthetic denture teeth, requirement of prosthetic denture teeth, denture lining materials and tissue conditioners, cast metal alloys as denture bases base metal alloys.
- o) Articulators Evolution of concepts, Classification, selection, limitations, precision, accuracy and sensitivity, and Functions of the articulator and their uses. Recent advancements including virtual articulator.
- p) Fabrication of complete dentures -complete denture impressions-muscles of facial expressions and anatomical landmarks, support, retention, stability, aims and objectives of preservation, support, stability, aesthetics, and retention. Impression materials and techniques
 - need of 2 impressions the preliminary impression and final impressions.

Developing an analogue / substitute for the maxillary denture bearing area – anatomy of supporting structures – mucous membrane, hard palate, residual ridge, shape of the supporting structure and factors that influence the form and size of the supporting bones, incisive foramen, maxillary tuberosity, sharp spiny process, torus palatinus, Anatomy of peripheral or limiting structures, labial vestibule, Buccal vestibule, vibrating lines. Preliminary and final impressions, impression making, custom tray and refining the custom tray, preparing the tray to secure the final impression, making the final impression, boxing impression and making the casts.

Developing an analogue / substitute for the Mandibular denture bearing area- anatomy of supporting structure, crest of the residual ridge, buccal shelf, shape of supporting structure, mylohyoid ridge, mental foramen, genial tubercles, torus mandibularis, Anatomy of peripheral or limiting structure – labial vestibule, Buccal vestibule, lingual border, mylohyoid



muscle, retromylohyoid fossa, sublingual gland region, alveolingual sulcus, Mandibular impressions – preliminary impressions, custom tray, refining, preparing the tray\, final impressions.

- q) Mandibular movements, Maxillo mandibular relations and concepts of occlusion Gnathology, identification of shape and location of arch form–Mandibular and maxillary occlusion rims, level of occlusal plane and recording of trail denture base, tests to determine vertical dimension of occlusion, interocclusal & centric relation records. Biological and clinical considerations in making jaw relation records and transferring records from the patients to the articulator, Recording of Mandibular movements influence of opposing tooth contacts, temporomandibular joint, muscular involvements, neuromuscular regulation of Mandibular motion, the envelope of motion, rest position.Maxillo Mandibular relations the centric, eccentric, physiologic rest position, vertical dimension, occlusion, recording methods mechanical, physiological, Determining the horizontal jaw relation Functional graphics, tactile or interocclusal check record method, Orientation / sagittal relation records, Arbitrary / Hinge axis and face bow record, significance and requirement, principles and biological considerations and securing on articulators.
- r) Selecting and arranging artificial teeth and occlusion for the edentulous patient anterior tooth selection, posterior tooth selection, and principles in arrangement of teeth, and factors governing the position of teeth horizontal & vertical relations. The inclinations and arrangement of teeth for aesthetics, phonetics and mechanics to concept of occlusion.
- s) The Try in –verifying vertical dimension, centric relation, establishment ofposterior palatal seal, creating a facial and functional harmony with anterior teeth, harmony of spaces of individual teeth position, harmony with sex, personality and age of the patient, co-relating aesthetics and incisal guidance.
- t) Speech considerations with complete dentures & speech production –structural and functional demands, neuropsychological background, speech production and the roll of teeth and other oral structures bilabial sounds, labiodental(s) sounds, linguodental sounds, linguoalveolar sound, articulatoric characteristics, acoustic characteristics, auditory characteristics, linguopalatal and linguoalveolar sounds, speech analysis and prosthetic considerations.
- u) Waxing contouring and processing the dentures their fit and insertion and after care laboratory procedure–wax contouring, flasking andprocessing, laboratory remount procedures, selective grinding, finishing and polishing.

Critiquing the finished prosthesis – doctors evaluation, patients evaluation, friends evaluation, elimination of basal surface errors, errors in occlusion, interocclusal records for remounting procedures – verifying centric relation, eliminating occlusal errors.

Special instructions to the patient – appearance with new denture, mastication with new dentures, speaking with new dentures, oral hygiene with dentures, <u>preservation</u> of residual ridges and educational material for patients, maintaining the comfort and health of the oral cavity in the rehabilitated edentulous patients. Twenty-four hours oral examination and treatment and (preventive) Prosthodontic



- periodontic recall for oral examination 3 to 4 months intervals and yearly intervals.v) Implant supported Prosthesis for partially edentulous patients -Scienceof Osseo integration, clinical protocol (diagnostic ,surgical and prosthetic) for treatment with implant supported over dentures, managing problems and complications. Implant Prosthodontics for edentulous patients: current and future directions.

Implant supported prosthesis for partially edentulous patients – Clinical and laboratory protocol: Implant supported prosthesis, managing problems and complications

- Introduction and Historical Review
- Biological, clinical and surgical aspects of oral implants
- Diagnosis and treatment planning
- Radiological interpretation for selection of fixtures
- Splints for guidance fort surgical placement of fixtures
- Surgical and Intra oral plastic surgery, if any
- Guided bone and Tissue regeneration consideration for implants fixture.
- Implant supported prosthesis for complete edentulism and partial edentulism
- Occlusion for implant supported prosthesis.
- Peri-implant tissue and Management of peri-implantitis
- Maintenance and after care
- Management of failed restoration.
- Work authorization for implant supported prosthesis definitive instructions, legal aspects, delineation of responsibility.

Prosthodontic treatment for partially edentulous patients – Removable partial Prosthodontics –

a. Scope, definition and terminology, Classification of partially edentulous arches - requirements of an acceptable method of classification, Kennedy's classification,

Applegate's rules for applying the Kennedy classification

- b. Components of RPD -
- I) major connector–mandibular and maxillary
- ii) minor connectors, design, functions & form and location of major and minor connectors, tissue stops, finishing lines, reaction of tissue to metallic coverage
- iii) Rest and rest seats form of the Occlusal rest and rest seat, interproximal Occlusal rest seats, internal Occlusal rests, possible movements of partial dentures, support for rests, lingual rests on canines and incisor teeth, incisal rest and rest seat.
- iv) Direct retainers- Internal attachments & extracoronal direct retainers. Relative uniformity of retention, flexibility of clasp arms, stabilizing reciprocal clasp, criteria for selecting a given clasp design, the basic principles of clasp design, circumferential clasp, bar clasp, combination clasp and other type of retainers.



- v) Indirect Retainers denture rotation about an axis, factors influencing effectiveness of indirect retainers, forms of indirect retainers, auxiliary Occlusal rest, canine extensions from Occlusal rests, canine rests, continuous bar retainers and linguoplates, modification areas, rugae support, direct – indirect retention.
- (vi) Teeth and denture bases types, materials, advantages and dis-advantages, indications and contraindications and clinical use.

Principles of removable partial Denture design – Bio mechanical considerations, and the factors influencing after mouth preparations – Occlusal relationship of remaining teeth, orientation of Occlusal plane, available space for restoration, arch integrity, tooth morphology, response of oral structure to previous stress, periodontal conditions, abutment support, tooth supported and tooth and tissue supported, need for indirect retention, clasp design, need for rebasing, secondary impression, need for abutment tooth modification, type of major connector, type of teeth selection, patients past experience, method of replacing single teeth or missing anterior teeth.

Difference between tooth supported and tissue supported partial dentures. Essentials of partial denture design, components of partial denture design, tooth support, tissue support, stabilizing components, guiding planes, use of splint bar for denture support, internal clip attachments, overlay abutment as support for a denture base, use of a component partially to gain support.

- c. Education of patient
- d. Diagnosis and treatment planning
- e. Design, treatment sequencing and mouth preparation
- **f. Surveying** –Description of dental surveyor, purposes of surveying, Aims and objectives in surveying of diagnostic cast and master cast, Final path of insertion, factors that determine path of insertion and removal, Recording relation of cast to surveyor, measuring amount of retentive area Blocking of master cast paralleled blockout, shaped blockout, arbitrary blockout and relief.
- g. Diagnosis and treatment planning —Infection control and cross infectionbarriers clinical and laboratory and hospital waste management, Objectives of prosthodontic treatment, Records, systemic evaluation, Oral examination, preparation of diagnostic cast, interpretation of examination data, radiographic interpretation, periodontal considerations, caries activity, prospective surgical preparation, endodontic treatment, analysis of occlusal factors, fixed restorations, orthodontic treatment, need for determining the design of components, impression procedures and occlusion, need for reshaping remaining teeth, reduction of unfavorable tooth contours, differential diagnosis: fixed or removable partial dentures, choice between complete denture and removable partial dentures, choice of materials
- **h. Preparation of Mouth for removable partial dentures** –Oral surgical preparation, conditioning of abused and irritated tissues, periodontal preparation objectives of periodontal therapy, periodontal diagnosis, control therapy, periodontal surgery.



- **I. Preparation of Abutment teeth** –Classification of abutment teeth, sequenceof abutment preparations on sound enamel or existing restorations, conservative restorations using crowns, splinting abutment teeth, utilization, temporary crowns to be used as abutment.
- **j. Impression Materials and Procedures for Removable Partial Dentures** Rigid materials, thermoplastic materials, Elastic materials, Impressions of the partially edentulous arch, Tooth supported, tooth tissue supported, Individual impression trays.
- **k. Support for the Distal Extension Denture Base** –Distal extension removable partial denture, Factors influencing the support of distal extension base, Methods of obtaining functional support for the distal extension base.
- I. Laboratory Procedures Duplicating a stone cast, Waxing the partial denture framework, Anatomic replica patterns, Spruing, investing, burnout, casting and finishing of the partial denture framework, making record bases, occlusion rims, making a stone occlusal template from a functional occlusal record, arranging posterior teeth to an opposing cast or template, arrangement of anterior teeth, waxing and investing the partial denture before processing acrylic resin bases, processing the denture, remounting and occlusal correction to an occlusal template, polishing the denture.
- m. Initial placement, adjustment and servicing of the removable partial denture –Adjustments to bearing surfaces of denture framework, adjustment of occlusion in harmony with natural and artificial dentition, instructions to the patient, follow up services
- n. Relining and Rebasing the removable partial denture Relining tooth supported dentures bases, relining distal extension denture bases, methods of reestablishing occlusion on a relined partial denture.
- o. Repairs and additions to removable partial dentures –Broken clasp arms, fractured occlusal rests, distortion or breakage of other components major and minor connectors, loss of a tooth or teeth not involved in the support or retention of the restoration, loss of an abutment tooth necessitating its replacement and making a new direct retainer, Other types of repairs & repair by soldering.
- p. Removable partial denture considerations in maxillofacial prosthetics Maxillofacial prosthetics, intra oral prosthesis, design considerations, Maxillary prosthesis, Obturators, speech aids, palatal lifts, palatal augmentations, mandibular prosthesis, treatment planning, framework design, class I resection, Class II resection, mandibular flange prosthesis, jaw relation records.
- q. Management of failed restorations and work authorization details.

MAXILLOFACIAL REHABILITATION:

Scope, terminology, definitions, cross infection control and hospital waste management, work authorization Behavioral and psychological issues in Head and neck cancer, Psychodynamic interactions between clinician and patient. **Cancer Chemotherapy:** Oral Manifestations, Complications, and management, **Radiation therapy of head and neck tumors:** Oral effects, Dental manifestations and dental treatment: Etiology, treatment and rehabilitation (restoration).



Acquired defects of the mandible, acquired defects of hard palate, soft palate, clinical management of edentulous and partially edentulous maxillectomy patients, Facial defects, Restoration of speech, Velopharyngeal function, cleft lip and palate, cranial implants, maxillofacial trauma, Lip and cheek support prosthesis, Laryngectomy aids, Obstructive sleep apnoea, Tongue prosthesis, Oesophageal prosthesis, radiation carriers, Burn stents, Nasalstents, Vaginal and anal stents, Auditory inserts, Trismus appliances, mouth controlled devices for assisting the handicapped, custom prosthesis, conformers, and orbital prosthesis for ocular and orbital defects. Osseo integrated supported facial and maxillofacial prosthesis. Resin bonding for maxillofacial prosthesis, cranial prosthesis Implant rehabilitation of the mandible compromise by radiotherapy, Prosthodontic treatment, Material and laboratory procedures for maxillofacial prosthesis.

II. OCCLUSION

EVALUATION, DIAGNOSIS AND TREATMENT OF OCCLUSAL PROBLEMS:

Scope, definition, terminology, optimum oral health, anatomic harmony, functional harmony, occlusal stability, causes of deterioration of dental and oral health. Anatomical, physiological, neuro — muscular, psychological considerations of teeth; muscles of mastication; temporomandibular joint; intra oral and extra oral and facial musculatures and the functions of Cranio mandibular system.

Occlusal therapy, the stomatognathic system, centric relation, vertical dimension, the neutral zone, the occlusal plane, differential diagnosis of temporomandibular disorders, understanding and diagnosing intra articular problems, relating treatment to diagnosis of internal derangements of TMJ, Occlusal splints. Selecting instruments for occlusal diagnosis and treatment, mounting casts, Pankey-Mann-Schuyler philosophy of complete occlusal rehabilitation, long centric, anterior guidance, restoring lower anterior teeth, restoring upper anterior teeth, determining the type of posterior occlusal contours, methods for determining the plane of occlusion, restoring lower posterior teeth, restoring upper posterior teeth, functionally generated path techniques for recording border movements intra orally, occlusal equilibration. Bruxism, Procedural steps in restoring occlusion, requirements for occlusal stability, solving occlusal problems through programmed treatment planning, splinting, solving – occlusal wear problems, deep overbite problems, anterior overjet problems, anterior open bite problems. Treating - end to end occlusion, splaed anterior teeth, cross bite problems, crowded, irregular, or interlocking anterior bite. Using Cephalometric for occlusal analysis, solving severe arch mal relationship problems, transcranial radiography, postoperative care of occlusal therapy.

III. FIXED PROSTHODONTICS

Scope, definitions and terminology, classification and principles, design, mechanical and biological considerations of components – Retainers, connectors, pontics, work authorization.



- Diagnosis and treatment planning patients history and interview, patients desires and expectations and needs, systemic and emotional health, clinical examinations head and neck, oral teeth, occlusal and periodontal, Preparation of diagnostic cast, radiographic interpretation, Aesthetics, endodontics considerations, abutment selection bone support, root proximities and inclinations, selection of abutments for cantilever, pier abutments, splinting, available tooth structures and crown morphology, TMJ and muscles of mastication and comprehensive planning and prognosis.
- Management of Carious teeth –caries in aged population, caries control, removal caries, protection of pulp, reconstruction measure for compromised teeth – retentive pins, horizontal slots, retentive grooves, prevention of caries, diet, prevention of root caries and vaccine for caries.
- Periodontal considerations –attachment units, ligaments, prevention of gingivitis, periodontitis. Microbiological aspect of periodontal diseases, marginal lesion, occlusal trauma, periodontal pockets in attached gingiva, interdental papilla, gingival embrasures, gingival/periodontal prosthesis, radiographic interpretations of Periodontium, intraoral, periodontal splinting Fixed prosthodontics with periodontically compromised dentitions, placement of margin restorations.
- Biomechanical principles of tooth preparation –individual tooth preparations Complete metal Crowns P.F.C., All porcelain Cerestore crowns, dicor crowns, inceram
 etc. porcelain jacket crowns; partial 3/4, 7/8, telescopic, pin– ledge, laminates, inlays,
 onlays. Preparations for restoration of teeth– amalgam, glass lonomer and composite
 resins. Resin bond retainers, Gingival marginal preparations Design, material selection,
 and biological and mechanical considerations intracoronal retainer and precision
 attachments custom made and prefabricated.
- Isolation and fluid control Rubber dam application(s), tissue dilation—softtissue
 management for cast restoration, impression materials and techniques, provisional
 restorations, interocclusal records, laboratory support for fixed Prosthodontics, Occlusion,
 Occlusal equilibration, articulators, recording and transferring of occlusal relations,
 cementing of restorations.
 - Resins, Gold and gold alloys, glass lonomer, restorations.
 - Restoration ofendodontically treated teeth, Stomatognathic Dysfunction and management
 - Management of failed restorations
 - **Osseo integrated supported fixed Prosthodontics** –Osseo integrated supported and tooth supported fixed Prosthodontics



CAD – CAM Prosthodontics

IV. TMJ – Temporomandibular joint dysfunction – Scope, definitions, and terminolog

Temporomandibular joint and its function, Orofacial pain, and pain from the temporomandibular joint region, temporomandibular joint dysfunction, temporomandibular joint sounds, temporomandibular joint disorders, Anatomy related, trauma, disc displacement, Osteoarthrosis/Osteoarthritis, Hyper mobility and dislocation, infectious arthritis, inflammatory diseases, Eagle's syndrome (Styloid – stylohyoid syndrome), Synovial chondromatosis, Osteochondrosis disease, Ostonecrosis, Nerve entrapment process, Growth changes, Tumors, Radiographic imaging.

- Etiology, diagnosis and cranio mandibular pain, differential diagnosis and management of orofacial pain – pain from teeth, pulp, dentin, muscle pain, TMJ pain – psychologic, physiologic – endogenous control, acupuncture analgesia, Placebo effects on analgesia, Trigeminal neuralgia, Temporal arteritis.
- Occlusal splint therapy construction and fitting of occlusal splints, management of occlusal splints, therapeutic effects of occlusal splints, occlusal splints and general muscles performance, TMJ joint uploading and anterior repositioning appliances, use and care of occlusal splints.
- Occlusal adjustment procedures Reversible occlusal stabilization splints and physical therapies, jaw exercises, jaw manipulation and other physiotherapy or irreversible therapy occlusal repositioning appliances, orthodontic treatment, Orthognathic surgery, fixed andremovable prosthodontic treatment and occlusal adjustment, removable prosthodontic treatment and occlusal adjustment. Indication for occlusal adjustment, special nature of orofacial pain, Psychopathological considerations, occlusal adjustment philosophies, mandibular position, excursive guidance, occlusal contact scheme, goals of occlusal adjustment, significance of a slide in centric, Preclinical procedures, clinical procedures for occlusal adjustment.

I. ESTHETICS

SCOPE, DEFINITIONS:

Morpho psychology and esthetics, structural esthetic rules –facial components, dental components, gingival components and physical components. Esthetics and its relationship to function – Crown morphology, physiology of occlusion, mastication, occlusal loading and clinical aspect in bio esthetic aspects, Physical and physiologic characteristic and muscular activities of facial muscle, perioral anatomy and muscle retaining exercises Smile – classification and smile components, smile design, esthetic restoration of smile, Esthetic management of the dentogingival unit, intraoral materials for management of gingival contours, and ridge contours, Periodontal esthetics, Restorations – Tooth colored restorative materials, the clinical and laboratory aspects, marginal fit, anatomy, inclinations, form, size, shape, color, embrasures & contact point.



Prosthodontic treatment should be practiced by developing skills, by treating various and more number of patients to establish skill to diagnose and treatment and after care with biomechanical, biological, bio-esthetics, bio-phonetics. All treatments should be carried out in more numbers for developing clinical skills.

• Infection control, cross infection barrier – clinical & lab; hospital & lab waste management

Teaching / Learning Activities:

The post graduate is expected to complete the following at the end of:

I YEAR M.D.S.

- Theoretical exposure of all applied sciences
- **Pre-clinical** exercises involved in prosthodontic therapy for assessment
- Commencement of library assignment within six months
- To carry out short epidemiological study relevant to prosthodontics.
- Acquaintance with books, journals and referrals.
- To differentiate various types of articles published in and critically appraise based on standard reference guidelines.
- To develop the ability to gather evidence from published articles.
- To acquire knowledge of published books, journals and websites for the purpose of gaining knowledge and reference – in the field of Oral and Maxillofacial Prosthodontics and Implantology
- Acquire knowledge of instruments, equipment, and research tools in Prosthodontics.
- To acquire knowledge of Dental Material Science Biological and biomechanical & bioesthetics, knowledge of using material in laboratory and clinics including testing methods for dental materials.
- Submit a protocol for their dissertation before Institutional Review Board and Institutional Ethics Committee.

Participation and presentation in seminars, didactic lectures.

II YEAR M.D.S.

- Acquiring confidence in obtaining various phases and techniques in removable and fixed prosthodontics therapy
- Acquiring confidence by clinical practice with sufficient number of patients requiring tooth and tooth surface restorations
- Fabrication of adequate number of complete denture prosthesis following, higher clinical approach by utilizing semi-adjustable articulators, face bow and graphic tracing.
- Understanding the use of dental surveyor and its application in diagnosis and treatment plan in R.P.D.
- Adequate number of R.P.D's covering all partially edentulous situations.
- Adequate number of Crowns, Inlays, laminates, FDP (fixed dental prosthesis)
 covering all clinical situations.



- Selection of cases and following principles in treatment of partially or complete edentulous patients by implant supported prosthesis.
- Treating single edentulous arch situations by implant supported prosthesis.
- Diagnosis and treatment planning for implant prosthesis.
- Ist stage and IInd stage implant surgery
- Understanding the maxillofacial Prosthodontics, treating craniofacial and management of orofacial defects
- · Prosthetic management of TMJ syndrome
- Occlusal rehabilitation
- Management of failed restorations.
- Prosthodontic management of patient with psychogenic disorder.
- Practice of child and geriatric prosthodontics.
- Participation and presentation in seminars, didactic and non didactic Teaching and Training students.

III YEAR M.D.S

- Clinical and laboratory practice continued from IInd year.
- Occlusion equilibration procedures—fabrication of stabilizing splint for parafunctional disorders, occlusal disorders and TMJ functions.
- Practice of dental, oral and facial esthetics
- The clinical practice of all aspects of Prosthodontic therapy for elderly patients.
- Implants Prosthodontics Rehabilitation of Partial Edentulism, Complete edentulism and craniofacial rehabilitation.
- Failures in all aspects of Prosthodontics and their management and after care.
- Team management for esthetics, TMJ syndrome and Maxillofacial & Craniofacial Prosthodontics
- Management of Prosthodontic emergencies, resuscitation.
- Candidate should complete the course by attending a large number and variety of patients to
 master the prosthodontic therapy. This includes the practice management, examinations,
 treatment planning, communication with patients, clinical and laboratory techniques materials
 and instrumentation required in different aspects of prosthodontic therapy, Tooth and Tooth
 surface restoration, Restoration of root treated teeth, splints for periodontal rehabilitations
 and fractured jaws, complete dentures, R.P.D's, F.D.P's,
 - Immediate dentures, over dentures, implant supported prosthesis, maxillofacial and body prosthesis, occlusal rehabilitation.
- · Prosthetic management of TMJ syndrome
- Management of failed restorations
- Should complete and submit Main Dissertation assignment 6 months prior to examination.



- Candidates should acquire complete theoretical and clinical knowledge through seminars, symposium, workshops and reading.
- Participation and presentation in seminars, didactic lectures

RECOMMENDED LIST OF TEXTBOOK & JOURNALS TEXT BOOKS:

- 1. Dental Materials
 - 1. Anusavice
 - 2. Craig
 - 3. McCabe
 - 4. O'brien
 - 5. Mclean Volume 1 (Ceramics)
- 2. Preclinical

Rudd and Morrow-1) CD, 2) RPD, FPD Volumes

- 3. Complete Dentures
 - 1. Boucher
 - 2. Winkler
 - 3. Heartwell
 - 4. Bernard Levin
 - 5. Ellinger
 - 6. Fenn
 - 7. Sharry
- 4. Fixed Partial Dentures
 - 1. Rosenstiel
 - 2. Shillingburg Textbook and Atlas
 - 3. Tylmann
 - 4. Keith Thayer FPD
 - 5. Keith Thayer Pin Retained FPD
- 5. Removable Partial Dentures
 - 1. Stewart
 - 2. McCracken
 - 3. Miller
 - 4. Bhaskar and Devan Atlas



PG SCHEDULE 2020 I YEAR M.D.S.

- Theory classes- Basic Sciences
- Clinical Cases and case presentations
- Pre- clinical exercises completion
- Commencement of Library Dissertation and Main Dissertation within six months- Topic selection, IRB, IEC,
- Short epidemiological study relevant to Prosthodontics- Topic selection, IRB, IEC,
- Participation and presentation in seminars (5), Journal club (5), lectures(5)
- Attending UG theory classes
- Attending IPS conference and IPS convention, workshops, symposia, CDE,
- Internal Assessment examinations in Applied subjects

	COMPLETE DENTURE
1	PRIMARY IMPRESSION MAKING (COMPOUND)
2	BEADING AND BOXING OF IMPRESSION
3	CAST PREPERATION (FINISHING & POLISHING)
4	MARKING ANATOMICAL LANDMARKS(MAX &
5	TRAY FABRICATION
6	(1) SHELLAC - CUT MARGIN
7	(2) SHELLAC - ROLL MARGIN
8	SPECIAL TRAY - SPACER DESIGNS
9	SPECIAL TRAY - FABRICATION (DOUGH &
	TECHNIQUE)
10	PREPARATION OF OCCLUSAL RIMS - 3 SETS
11	ARTICULATION OF THE CAST FOR CL 1 2 3
12	ARRANGEMENT IN CLASS 1
13	ARRANGEMENT IN CLASS 2
14	ARRANGEMENT IN CLASS 3
15	REMOUNTING, PROCESSING & FINISHING



	FPD PREPARATION
1	Preparation of 11 & 12
2	Preparation of 15
3	Preparation of 17
4	Preparation of 21
5	Preparation of 23
6	Preparation of 36, 45 & 47 (for bridge)
7	Preparation of 41 & 43
8	Preparation of 13
9	Preparation of 24
10	Preparation of 26
11	Preparation of 34 & 37
12	Preparation of 31 & 33
	MFP
	Fabrication of Obturator
	Fabrication of Auricular prosthesis
	Fabrication of Orbital prosthesis

REMOVABLE PARTIAL DENTURE

1.	CLASS -I
2.	CLASS -II
3.	CLASS-III
4.	CLASS-IV
5.	CLASS III with modification
6.	CLASS I with modification



II YEAR MDS.

Clinical Cases and case presentations

Complete 2 publications- One in pubmed / Scopus Attending IPS conference and IPS convention Completion of Library Dissertation and Main Dissertation

Participation and presentation in seminars (5), lectures (5), Journal club (5) Paper presentation and poster in conference – 1 and 1

Attending UG theory classes Internal Assessment examinations

III YEAR M.D.S

Clinical Cases and case presentations

Complete and submit Library and Main Dissertation 6 months prior to examination. Complete 2 publications- One in pubmed / Scopus

Participation and presentation seminars (5), Journal club (5), lectures(5) Attending UG theory classes

Attending IPS conference and IPS convention

Paper presentation and poster in conference – 1 and 1

Internal assessment examinations before University examinations



Consolidated work schedule

S. No	Topic	IMDS	II MDS	III MDS		
1	Theory class	Basic science, Research Methodology, Biostatistics	Prostho	Prostho		
2	Preclinical Work	Completion				
3	Clinical Cases	RPD- 20, CD- 10,FPD- PRE CLINICAL-50	FPD- 75, CPD- 5, MFP- 10, CD- 10,CD BAL-5	Full mouth- 4, Esthetic, TMJ- 10, Implants- 10		
4	Case presentations	Yes	Yes	Yes		
5	Library dissertation 1	Topic, IRB, IEC	Completion	Submission and Publication		
6	Main dissertation 1	Topic, IRB, IEC	Completion	Submission and Publication		
7	Short study 1	Topic, IRB, IEC	Completion	Submission and Publication		
8	Conference and Convention Attending Presenting	IPS, TNIPS, Others All 1	IPS, TNIPS, Others All 1	IPS, TNIPS, Others All 1		
9	Internal Assessment Exam	Basic Science	CD, RPD, FPD	Implants, MFP, TMJ, Esthetics		
10	Seminars, JC, Lectures	5,5,5	5,5,5	5,5,5		



SCHEME OFEXAMINATION:

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 should be conducted at the end of First year of MDS course. Part 1 examination consists of two essays of 25 marks each and 10 short answers of 5 marks each. 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 and Paper III shall consist of two long answer questions carrying 25 marks each and five questions carrying 10 marks each. Distribution of topics for each paper will be as follows:

Part-I: Applied Basic Sciences: Applied Anatomy

Nutrition & Biochemistry, Pathology & Microbiology, virology, Applied Dental anatomy & histology, Oral pathology & oral Microbiology, Adult and geriatric psychology. Applied dental materials.

Part-II

Paper-I: Removable Prosthodontics and Implant supported prosthesis (Implantology), Geriatric dentistry and Cranio facial Prosthodontics

Paper-II: Fixed Prosthodontics, Occlusion, TMJ and esthetics. Paper-III: Essays (descriptive and analyzing type questions)

*The topics assigned to the different papers are generally evaluated under those sections. However a strict division of the subject may not be possible and some overlapping of topics is inevitable. Students should be prepared to answer overlapping topics.

A. Practical / Clinical Examination:

200 Marks

1. Presentation of treated patients and records during their 3 years

Tra	ining period	35 Marks
a.	C.D.	1 mark
b.	R. P.D.	2 marks
c.	F.P.D. including single tooth and surface restoration	2 marks
d.	I.S.P.	5 marks
e.	Occlusal rehabilitation	5 marks
f.	T.M.J.	5 marks
g.	Maxillofacial Prosthesis	5 marks
h.	Pre Clinic Exercises	10 marks



2. Presentation of Clinical Exam CD patient's prosthesis including insertion

1.	Discussion on treatment plan and patient review	10 marks
2.	Tentative jaw relation records	5 marks
3.	Face Bow – transfer	5 marks
4.	Transferring it on articulators	5 marks
5.	Extra oral tracing and securing centric and protrusive/lateral, record	15 marks
6.	Transferring records on articulator and programming.	5 marks
7.	Selection of teeth	5 marks
8.	Arrangement of teeth	10 marks
9.	Waxed up denture trial	10 marks
10.	Check of Fit, insertion and instruction of previously processed characterised, anatomic complete denture Prosthesis	5 marks

ALL STEPS WILL INCLUDE CHAIRSIDE, LAB AND VIVA VOCE

3. Fixed Partial Denture

35 Marks

- a. Case discussion including treatment planning and selection of 5 Marks patient for F.P.D.
- b. Abutment preparation isolation and fluid control 15 marks
- c. Gingival retraction and impressions (conventional/ CAD 10 marks CAM impressions
- d. Cementation of provisional restoration 5 marks

4. Removable Partial Denture

25 Marks

a. Surveying and designing of partial dentate cast. 5 marks

b. Discussion on components and material selection 10 marks including occulsal schemes.

5. Implant supported prosthesis (2nd stage- protocol) 30 marks

a. Case discussion including treatment planning and
b. Il stage preparation, Abutment selection, placement,
c. Implant impression and making of cast
10 marks
10 marks



B. Viva Voce: 100 Marks

I. Viva-Voce examination:

80 marks

All examiners will conduct viva-voce conjointly on candidate's comprehension, analytical approach, expressions, interpretation of data and communication skills. It includes all components of course contents. It includes presentation and discussion on dissertation also.

II. Pedagogy 20 marks

ESSENTIAL SKILLS

* Key

O - Washes up and observe

A - Assists a senior

PA - Performs procedure under the direct supervision of a senior specialist

PI - Performs independently

PROCEDURE	CATEGORY			
	0	Α	PA	PI
Tooth and tooth surface restoration				
a) Composite - fillings, laminates, inlay, onlay	2	2	2	10
b) Ceramics - laminates, inlays, onlays	2	2	2	10
c) Glass lonomer	1	1	1	10



CROWNS				
FVC for metal	1	2	2	10
FVC for ceramic	1	2	2	10
Precious metal crown	1	-	1	5
Galvano formed crown	-	-	1	1
3/4th crowns (premolars, canines and centrals)	1	-	-	5
7/8 th posterior crown	1	-	-	5
Proximal half crown	1	-	-	5
Pin ledge and pinhole crowns	1	-	-	5
Telescopic crowns	1	-	-	5
Intraradicular crowns (central, lateral, canine, premolar, and molar)	1	-	-	5
Finger/hand, foot:	-	-	1	2
Body prosthesis	-	-	1	1
Management of burns, scars	-	-	1	1
TMJ SYNDROME MANAGEMENT		1		
Splints - periodontal, teeth, jaws	-	-	1	4
TMJ supportive and treatment Prosthesis	-	-	1	1
Stabilization appliances for maxilla and mandible with	-	-	-	1
freedom to move from IP to CRCP				
In IP without the freedom to move to CRCP	-	-	-	1
Repositioning appliances, anterior Disclusion	-	-	-	1
Chrome cobalt and acrylic resin stabilization	-	-	-	2
appliances for modification to accommodate for the				
irregularities in the dentition				
Occlusal adjustment and occlusal Equilibrium	-	-	1	4
FULL MOUTH REHABILITATION	<u> </u>	ı	1	1
Full mouth rehabilitation - restoration of esthetics	-	-	1	4
and function of stomatognathic system				
	l .			



INTER -DISCIPLINARY TREATMENT MODALITIES				
Inter - disciplinary management - restoration of Oro	-	-	1	2
craniofacial defects for esthetics, phonation,				
mastication and psychological comforts				
MANAGEMENT OF FAILED RESTORATION				
Tooth and tooth surface restoration	-	-	-	5
Removable prosthesis	-	-	-	10
Crown and fixed prosthesis	-	-	-	5
Maxillofacial prosthesis	-	-	-	2
Implant supported prosthesis	-	-	-	1
Occlusal rehabilitation and TMJ Syndrome	-	-	-	2
Restoration failure of psychogenic Origin	-	-	-	5
Restoration failure to age changes	-	-	-	2
Crown as implant supported Prosthesis	1	-	1	5
FIXED PARTIAL DENTURES				
Cast porcelain(3 units)	1	-	-	5
Cast metal- precious and non precious	1			5
(3 unit posterior)	'			
Porcelain fused metal (anterior and posterior)	1	1	1	10
Multiple abutment- maxillary and Mandibular full	1	1	1	5
arch	'	'	'	
Incorporation of custom made and readymade	1	1	1	4
precision joint or attachments				
Adhesive bridge for anterior/posterior	1	-	-	5
Metal fused to resin anterior FDP	-	-	1	10
Interim provisional restoration (crowns and FPDs)	1	1	1	10
Immediate fixed partial denture(interim)	1	-	-	5
Fixed prosthesis as a retention and				
rehabilitation for acquired and congenital	1	1	1	5
defects - maxillofacial prosthetics				
Implant supported prosthesis	1	-	1	1
Implant - tooth supported Prosthesis	1	-	1	1



REMOVABLE PARTIAL DENTURE				
Provisional partial denture Prosthesis	1	1	1	10
Cast removable partial denture (for Kennedy's	1	1	1	6
Applegate classification with modification)				
Removable bridge with precision attachments and	1	1	2	4
telescope crowns for anterior and posterior				
Immediate RPD	1	1	1	5
Partial denture for medically compromised and	1	1	1	5
handicapped Patients				
COMPLETED DENTURES				
Neurocentric occlusion &	-	-	1	5
Characterized prosthesis				
Anatomic characterized prosthesis(by using semi	-	-	1	25
adjustable articulator)				
Single dentures	-	-	1	5
Overlay dentures	-	-	1	5
Interim complete dentures as a treatment prosthesis for	-	-	1	5
abused denture supporting tissues				
Complete denture prosthesis (for abnormal ridge	-	-	1	5
relation, ridge form and ridge size)				
Complete denture for patients with TMJ Syndromes	-	-	1	5
Complete dentures for medically compromised and	-	-	1	5
handicapped Patients				
GERIATRIC PATIENTS				
Tooth And Tooth Surface				
Restorations, Crowns, Fixed Prosthesis,	-	-	1	5
Removable prosthesis				
IMPLANT SUPPORTED COMPLETE PROSTHESIS	ļ	1	<u> </u>	<u> </u>
Implant supported complete prosthesis			_	
(maxillary and Mandibular)	-	-	1	1



MAXILLOFACIAL PROSTHESIS				
Guiding flange and obturators	-	-	1	4
Speech and palatal lift prosthesis		-	1	2
Eye prosthesis	-	-	1	2
Ear prosthesis	-	-	1	2
Nose prosthesis	-	-	1	2
Face prosthesis	-	-	-	1
Maxillectomy	-	-	1	2
Hemimandibulectomy	-	-	1	2
Cranioplasty	-	-	1	1

RECOMMENDED LIST OF TEXTBOOK &

JOURNALS TEXT BOOKS: 1. Dental Materials

- - 1. Anusavice
 - 2. Craig
 - 3. McCabe
 - 4. O'brien
 - 5. Mclean Volume 1 (Ceramics)
- 2. Preclinical

Rudd and Morrow-1) CD, 2) RPD, FPD Volumes

- 3. Complete Dentures
 - 1. Boucher
 - 2. Winkler
 - 3. Heartwell
 - 4. Bernard Levin
 - 5. Ellinger
 - 6. Fenn
 - 7. Sharry
- 4. Fixed Partial Dentures
 - 1. Rosenstiel
 - 2. Shillingburg Textbook and Atlas
 - 3. Tylmann
 - 4. Keith Thayer FPD
 - 5. Keith Thayer Pin Retained FPD



5. Removable Partial Dentures

- 1. Stewart
- 2. McCracken
- 3. Miller
- 4. Bhaskar and Devan Atlas
- 6. Implant
 - 1. Carl E.Mish Dental Implant Prosthetics
 - 2. Babbush
- 7. Overdentures
 - 1. Brewer and Morrow
 - 2. Prieskel –

Overdentures

3.Prieskel -

Attachments

- 8. Maxillofacial Prosthetics
 - 1. Challian
 - 2. Beumer
 - 3. Taylor
- 9. TMJ and Occlusion
 - 1. Okesson
 - 2. Dawson Occlusion
 - 3. Dawson TMJ AND Smile Design
 - 4. Ramford and Ash
 - 5. Koho and Takioma Occlusal Rehabilitation



JOURNALS RECOMMENDED:

SI.NO	JOURNAL TITLE	NATIONAL / INTERNATIONAL
1	Journal Of Prosthodontics	International
2	Clinical Oral Implant Research	International
3	The international journal of prosthodontics	International
4	Journal of prosthetic Dentistry	International
5	Journal of Oral Implantology	International
6	Dental Materials	International
7	Journal of Dental Research	International
8	The Journal of Indian Prosthodontic Society	National

PG SCHEDULE YEAR M.D.S.

- Theory classes- Basic Sciences
- Clinical Cases and case presentations
- Pre-clinical exercises completion
- Commencement of Library Dissertation and Main Dissertation within six months- Topic selection, IRB, IEC,
- Short epidemiological study relevant to Prosthodontics-- Topic selection, IRB, IEC,
- Participation and presentation in seminars (5), Journal club (5), lectures(5)
- Attending UG theory classes
- Attending IPS conference and IPS convention, workshops, symposia, CDE,
- Internal Assessment examinations in Applied subjects

REMOVABLE PARTIAL DENTURE

1.	CLASS -I
2.	CLASS -II
3.	CLASS-III
4.	CLASS-IV
5.	CLASS III with modification
6.	CLASS I with modification



II YEAR MDS.

Clinical Cases and case presentations

Complete 2 publications- One in pubmed / Scopus Attending IPS conference and IPS convention Completion of Library Dissertation and Main Dissertation

Participation and presentation in seminars (5), lectures (5), Journal club (5) Paper presentation and poster in conference – 1 and 1

Attending UG theory classes Internal Assessment examinations

III YEAR M.D.S

Clinical Cases and case presentations

Complete and submit Library and Main Dissertation 6 months prior to examination. Complete 2 publications- One in pubmed / Scopus

Participation and presentation seminars (5), Journal club (5), lectures (5) Attending UG theory classes

Attending IPS conference and IPS convention

Paper presentation and poster in conference – 1 and 1

Internal assessment examinations before University examinations



Consolidated work schedule

S. No	Topic	IMDS	II MDS	III MDS
1	Theory class	Basic science, Research Methodology, Biostatistics	Prostho	Prostho
2	Preclinical Work	Completion		
3	Clinical Cases	RPD- 20, CD- 10,FPD- PRE CLINICAL-50	FPD- 75, CPD- 5, MFP- 10, CD- 10,CD BAL-5	Full mouth- 4, Esthetic, TMJ- 10, Implants- 10
4	Case presentations	Yes	Yes	Yes
5	Library dissertation 1	Topic, IRB, IEC	Completion	Submission and Publication
6	Main dissertation 1	Topic, IRB, IEC	Completion	Submission and Publication
7	Short study 1	Topic, IRB, IEC	Completion	Submission and Publication
8	Conference and Convention Attending Presenting	IPS, TNIPS, Others All	IPS, TNIPS, Others All	IPS, TNIPS, Others All
9	Internal Assessment Exam	Basic Science	CD, RPD, FPD	Implants, MFP, TMJ, Esthetics
10	Seminars, JC, Lectures	5,5,5	5,5,5	5,5,5



TIME TABLE I MDS

DAY	8.30-10.30AM	10.45-1.30PM	2.00-4.00PM
MONDAY	PRE-CLINICAL LAB	PRE-CLINICAL LAB	BASIC SCIENCE-ANATOMY & PATHOLOGY
TUESDAY	SEMINAR/ PRE- CLINICAL LAB	SEMINAR	BASIC SCIENCE- MICROBIOLOGY & PHARMACOLOGY
WEDNESDAY	JOURNAL CLUB	PRE-CLINICAL LAB	BASIC SCIENCE- BIOCHEMISTRY & PHYSIOLOGY
THURSDAY	PRE-CLINICAL LAB/ PEDOGOGY/ CASE DISCUSSION	PRE-CLINICAL LAB	BIOSTATISTICS
FRIDAY	PRE-CLINICAL LAB	PRE-CLINICAL LAB / SEMINAR	PRE-CLINICAL LAB
SATURDAY	PRE-CLINICAL LAB	LIBRARY	

TIME TABLE II MDS

DAY	8.30-12.30 PM	1.00-3.30 PM
MONDAY	CLINICS - OP	CLINICS - OP
TUESDAY	SEMINAR/ CLINICS – OP	CLINICS - OP
WEDNESDAY	JOURNAL CLUB/ CLINICS – OP	CLINICS - OP
THURSDAY	CLINICS – OP/ PEDOGOGY/ CASE DISCUSSION	CLINICS - OP
FRIDAY	CLINICS - OP / SEMINAR	CLINICS - OP
SATURDAY	CLINICS - OP / LIBRARY	



TIME TABLE III MDS

DAY	8.30-12.30 PM	1.00-3.30 PM	
MONDAY	CLINICS - OP	CLINICS - OP	
TUESDAY	SEMINAR/ CLINICS – OP	CLINICS - OP	
WEDNESDAY	JOURNAL CLUB/ CLINICS – OP	CLINICS - OP	
THURSDAY	CLINICS - OP/ PEDOGOGY/ CASE DISCUSSION	CLINICS - OP	
FRIDAY	CLINICS – OP / SEMINAR	CLINICS - OP	
SATURDAY	CLINICS – OP / LIBRARY		

PROSTHODONTICS- POST GRADUATE SECTION INSTRUMENT LIST - REMOVABLE PROSTHESIS

PROSTHODONTICS EXAMINATION KIT: (DIAGNOSTIC KIT)

- 1. Mouth mirror
- 2. Sickle probe
- 3. 3 x College tweezers
- 4. Periodontal probe
- 5. Cotton holder
- 6. Kidney tray
- 7. Metal scale
- 8. T burnisher
- 9. Articulating paper forceps

PRIMARY IMPRESSION KIT (ALONG WITH DIAGNOSTIC KIT)

- 1. Flexible mixing large bowl
- 2. Curved spatula
- 3. Impression trays (edentulous) autoclavable metal (or) plastic trays
- 4. Bard parker handle No.4 and No.21
- 5. Bunsen burner and spirit lamp



- 6. Chip blower
- 7. Hematoxylin and eosin pencils
- 8. Kidney tray
- 9. Sickle probe
- 10. 3 X College tweezers
- 11. Periodontal probe
- 12. Cotton holder
- 13. Kidney tray
- 14. Metal scale
- 15. T burnisher
- 16. Articulating paper forceps

SECONDARY IMPRESSION KIT (ALONG WITH DIAGNOSTIC KIT)

- 1. Rubber bowl (One for hot water and One for cold water)
- 2. Wax knife
- 3. Lecron carver (Wax carver)
- 4. Bard Parker handle No.3 and No.13B
- 5. Cement spatula (bared bladed)
- 6. Chip blower
- 7. Bunsen burner or spirit lamp or Blow torch
- 8. Lighter or match box
- 9. Copy pencils Eosin and Hematoxylin
- 10. Glass slab
- 11. Set of acrylic trimmer TF bur (flame shaped)

TF bur(round - big)

DIAGNOSTIC KIT

- 12. Kidney tray
- 13. Mouth mirror
- 14. Sickle probe
- 15.College tweezers
- 16.Periodontal probe



- 17. Cotton holder
- 18.Metal scale
- 19.T burnisher
- 20. Articulating paper forceps

FACE BOW TRANSFER

- 1. Kidney tray
- 2. Mouth mirror
- 3. Sickle probe
- 4. College tweezers
- 5. semi adjustable articulators
- 6. Face bow
- 7. Mounting jig
- 8. Bite fork
- 9. Burner blow torch
- 10. Chip blower
- 11. Metal scale
- 12. Glass tile

JAW RELATION AND TRY IN KIT (ALONG WITH DIAGNOSTIC KIT)

- 1. Willis gauge driver
- 2. Fox plane guide
- Wax knife
- 4. Lecron carver
- 5. Bunsen burner or spirit lamp or Blow torch
- 6. Hot Plate
- 7. Match box / lighter
- 8. Chip blower
- 9. Kidney trays
- 10. Mouth mirror
- 11. Sickle probe
- 12. 3x college tweezers
- 13. Periodontal probe
- 14. Cotton holder
- 15. Metal scale
- 16. Articulating paper forceps
- 17. Height's tracer

COMPLETE DENTURE INSERTION KIT

- 1. Mouth mirror
- 2. Sickle probe
- 3. 3 X College tweezers
- 4. Periodontal probe
- 5. Rubber bowl One for putting denture in water One with clear water
- 6. Articulating paper forceps
- 7. Acrylic trimmer set:

Tungsten carbide

bur-Flame shaped

Straight fissure

Round bur

Diamond disc with mandrel Sand paper mandrel

PROSTHODONTICS- POST GRADUATE SECTION INSTRUMENT LIST - FIXED PROSTHESIS

- 1. Kidney tray
- 2. Mouth mirror
- 3. Sickle probe
- 4. Periodontal probe
- 5. Straight probe
- 6. 3 x College tweezers
- 7. Cotton holder
- 8. Rectangular tray
- 9. Articulating paper forceps

PRIMARY IMPRESSIO KT-ALONG WITH DIAGNOSTICS KIT

- 1. perforated metal stock trays
- 2. Rubber bowl
- 3. Curved alginate spatula
- 4. Diagnostic kit-
- 5. Kidney tray
- 6. Mouth mirror
- 7. Sickle probe
- 8. Periodontal probe



- 9. Straight probe
- 10. 3 x college tweezers
- 11. Cotton holder
- 12. Rectangular tray

TOOTH PREPARATION KIT-FINAL IMPRESSION

- 1. kidney tray
- 2. Mouth mirror
- 3. Sickle probe
- 4. Periodontal probe
- 5. Straight probe
- 6. 3 x college tweezers
- 7. Cotton holder
- 8. Rectangular tray
- 9. Dapen dish
- 10. Airotor hand piece
- 11. Tooth preparation kit

Diamond} so-20, so-21, TR 62C, IR12, TR 12, TR13, EX-21 Tungsten} TF-12 TF-13 TC-11, TR, 12-12EF EX-21 EF Carbide} FO-25, TC-26

- 12. CORD PACKING-retraction cord packer Hu Friedy
- 13. Scissors(STRAIGHT & CURVED) GINGIVAL RETRACTION CORD
- 14. BARD PARKER HANDLE 3 \$BLADE 11 FOR INDEX
- 15. Acrylic trimmer
- 16. Diamond disc
- 17. Cement spatula
- 18. Wax carver
- 19. Plastic instrument
- 20. Glass slab
- 21. Perforated dentulous tray
- 22. Wax paper
- 23. Articulating paper
- 24. Shade guide

CROWN CEMENTATION KIT

- 1. Kidney tray
- 2. Mouth mirror
- 3. Sickle explorer
- 4. Periodontal probe
- 5. Straight probe
- 6. 3 X College tweezers
- 7. Cotton holder
- 8. Rectangular tray
- 9. No.6 plastic instrument
- 10. Crown remover or sickle scaler
- 11. Cement spatula
- 12. Glass slab
- 13. Shade guide
- 14. Articulating paper shim stock
- 15. Hand piece / shim burs
- 16. Dental Floss
- 17. Articulating paper holder
- 18. Airotor hand piece

FPD LAB INSTRUMENTS

- 1. PKT instrument
- 2. Die
- 3. Wax gauge / calliper
- 4. Metal calliper
- 5. Silicone die base former
- 6. Base former
- 7. Casting and finishing:
- casting rings
- carborundum discs
- Metal trimming TC bus
- finishing stones
- polishing kit
- 8. SLR camera
- 9. Laptop

Miscellaneous:

Microsoft Tablet Pc

IMPLANTOLOGY

Implant kit approved by the department