

مفردات المقررات الدراسية

الكيمياء العامة (GS 111) :

وحدات القياس الكيميائية – أمثلة ومسائل

المادة

التركيب الذري والجول الذري

المبادئ والخواص في الجدول الذري

مبدأ باولي وقاعدة هوند والتوزيع الإلكتروني والتدرج في الخواص في الجدول الدوري

الحسابات الكيميائية

الصيغ الكيميائية ومفهوم المول ووزن المعادلات

الحسابات الكيميائية

العلاقات المولية والوزنية والحسابات الكمية

والمتفاعل المحدد للتفاعل – أمثلة ومسائل

تفاعلات الأكسدة والأختزال – أمثلة ومسائل

طرق التعبير عن التراكيز الكيميائية – أمثلة ومسائل

مصطلحات طبية (GS 112)

Nouns, Pronouns., The simple present tense , the present progressive tense, Introducing the students to the parts of speech in English, The passive voice which is widely used in technical and scientific English, Writing activities on medical and medically related subjects, The reading comprehension, Basic medical terms used in instruction, Medical prefixes and suffixes, Basic medical terms used in the medical practice, Introduction to medical examination, Different types of exercises to enhance the students, command of medical English follow these text.

الفيزياء (GS 113)

Basic concepts, Properties of matter, Properties of matter, Elasticity, hydrodynamics, Temperature , Sound waves, Electromagnetic wave, Electromagnetic wave, Atomic physics, Atomic physics.

علم الأحياء (GS 114)

Introduction to cytology
Cell structure and function-part I
Cell structure and function-part II
Cell structure and function-part III
Cell metabolism
Cellular respiration
Plant tissue
Phytosynthesis
Nucleic acids and chromosomes
Gene Expression
Cell reproduction
Introduction to body tissues
Introduction to body system

اللغة العربية (GS 115)

التعريف باللغة العربية وأهميتها وقوتها التعبيرية
مكونات الجملة العربية
الجملة الاسمية والجملة الفعلية
النواسخ (كان واخواتها، كاد واخواتها، ان واخواتها)
جمع المذكر والمؤنث السالم – المثنى – الأفعال الخمسة – الممنوع من الصرف
الإعراب أقسامه وعلاماته
الإعراب والبناء في الأسماء
الإعراب والبناء في الفعل والحرف
الأحصاء الحيوي (GS 116)

مقدمة عن الإحصاء وطرق جمع والعرض البيانات جدوليا وبيانيا، تحليل البيانات (مقاييس النزعة المركزية) التوزيعات الاحتمالية المتقطعة، التوزيعات الاحتمالية المستمرة، دالة كتلة الاحتمال وتوزيعاتها، الاحتمالات ودالة كثافة الاحتمال، خصائص دالة كثافة الاحتمال للمتغير المتقطع والمستمر، توزيعات المعاينة، اختبارات الفروض لمتوسط المجتمع، اختبارات الفروض لنسبة المجتمع، التقدير بنقطة أو بفترة اختبارات الفروض للفرق بين متوسطين و اختبارات الفروض للفرق بين نسبتيين

التشريح العام I (DT 121)

General Anatomy, Thorax, Abdomen, Pelvis, Upper limbs, Lower limbs,
Embryology, General Embryology, Special Embryology, Bones.

الأنسجة العامة (DT 122)

Introduction & Methods of Study, The Cell, Epithelial Tissue, Connective Tissue, Cartilage and bone, Blood and blood vessels, Lymphatic Vessels, Nervous Tissue, Digestive system, Respiratory System, Endocrine system

علم وظائف الأعضاء I (DT 123)

Introduction, Functional organization of human Body, Nerve, Pain, Sensation in the face and mouth, Muscle, Blood, Immunity, Sensory physiology.

خواص المواد I (DT 124)

Introduction, Structure of Matter and Principles of Adhesion, Physical Properties of Dental Materials, Biological Considerations in Use of Dental Materials, Gypsum Products, Impression Materials

التشريح الوصفي I (DT 125)

Introduction to dental anatomy, Development and eruption of the teeth, Dental formula, The primary (Deciduous) teeth, The primary (Deciduous) teeth, Morphology of deciduous teeth, General considerations in physiology of the permanent dentition, Morphology of permanent teeth Upper and lower first and second premolar, Morphology of permanent teeth Lower first and second molar, Morphology of permanent teeth Upper first and second molar.

الكيمياء الحيوية (DT 126)

Introduction, Biochemistry of the cell, Biochemistry of the cell and body fluids, Chemistry of Carbohydrates, Chemistry of Proteins, Nucleotide and Nucleic Acid, Chemistry of Lipids, Biological membranes, Enzymes, Porphyrins & Hemoglobin, Vitamins, Biochemistry of Digestive Tract, Mineral & Trace elements, Carbohydrate Metabolism, Lipid Metabolism, Protein Metabolism.

الأحياء الدقيقة I (DT 127)

General microbiology, Bacterial structure, Bacterial physiology, Bacterial taxonomy, Bacterial genetics and molecular biology, Bacterial pathogenicity and epidemiology, Viruses and Fungi, Immunology, Periodontal disease, The oral microflora and dental plaque, Defence mechanisms of the mouth, Bacterial and viral infections of the oral mucosa.

(DT 231) I الأنسجة الفموية

Introduction, Embryology, Tooth development, Enamel, Dentin, Cementum, Pulp, Periodontal ligament, Dento-osseous structure, The dento-osseous structure is a term used for the bone structure related to the teeth.

(DT 232) II التشريح العام

Scalp, Face, Parotid gland, Temporal and infra temporal fossa, Cranial cavity and Orbit, Neck anterolateral aspect, Viscera of the neck, Main vessels and nerves of the neck, Nasal and oral cavity, Ear, Joints, Lymphatic`s of the head and neck.

(DT 233) II علم وظائف الاعضاء

Taste physiology, The movement function of the masticatory system, Cardio Vascular system, Respiratory system, Nervous System, Endocrinology, Physiology of growth (Head & Neck), Experimental physiology, Speech physiology.

(DT 234) II خواص المواد

Dental Casting Investments, Soldering, Brazing and Welding, Wrought Base Metal Alloys, Dental Cements, Dental Ceramic, Abrasion & Polishing, Die Materials, Dental Implants, Mechanics of Cutting.

(DT 235) II التشريح الوصفي

Comparative dental anatomy, Periodontium, Chronology of dentition, The pulp cavity, Dental arches, Occlusion of human dentition, Dento-osseous structures, The temporomandibular joints, Mandibular movement.

(DT 236) علم الأمراض العامة

Introduction, Cell injury, Inflammation and mediators of inflammation, Wound healing, Bacterial infection, Granuloma, Disorders of circulation, Disease of the blood vessels, Disease of the heart, Disease of the respiratory system, Disorders of the immune system, Tumor.

(DT 237) علم الأدوية

General principles of drug action, The administration of drugs: the routes of administration, Prescribing and the law, Pharmacology of inflammation and immuno-pharmacology, The pharmacology of pain, Aspirin other non-steroidal anti-inflammatory drugs, and paracetamol, Local anesthetics (local analgesics), General anesthesia and sedation, Antimicrobials, Antiseptics and disinfectants, Pharmacological control of dental caries and periodontal disease, Hemostasis and hemostatic agents, Autonomic nervous system, The central nervous system, Drugs used in the treatment of cardiovascular disease, Drugs acting on the respiratory system and the gastrointestinal tract, Chemotherapeutic agents in neoplastic disease, The endocrine system, Vitamins and minerals, Classification, Emergencies in dental practice, Unwanted effects of drugs, Drug interactions, Treatments for common dental conditions.

(DT 241) II الانسجة الفموية

Agents affecting tooth and bone development, Eruption, Shedding, Temporomandibular joint, Oral Mucosa (Oral Mucous Membrane), Salivary glands and saliva, Maxillary sinus, Histo-chemistry of oral tissues, Tonsils, Thyroid gland.

(DT 242) I التركيبات الثابتة

Introduction, Principles of tooth preparation, Instruments, Dental ceramic, Metal ceramic, Full coverage tooth preparation (full metal), Full coverage tooth preparation (metal ceramic) (anterior and premolar), Full coverage tooth preparation all ceramic (anterior and premolar), Full coverage tooth preparation (metal ceramic) (molar teeth), Fluid and tissues management.

(DT 243) I التركيبات المتحركة

Introduction to Prosthodontics, Various Branches, Removable Prosthodontics, Complete Dentures & Removable Partial Dentures, Anatomy and physiology, Anatomical Landmarks: Extra oral & intra oral Impressions: Materials & Techniques used, Primary Impression, Model materials, Model preparation, Custom trays / individualized trays, Final impression, Trial denture base & occlusal rim, Jaw relations & mandibular movements, Articulators & face bow, Selection of teeth, Arrangement of teeth.

(DT 244) I العلاج التحفظي

Introduction to operative Dentistry, Tooth History, Physiology, Tooth anatomy & normal occlusion, Clinical Significance of tooth Structure, Dental caries, Tooth numbering systems, Cavity Nomenclature, Principles of cavity preparation, Fundamentals of cavity and tooth preparation, Instruments and instrumentation.

الباطنة العامة (DT 245)

Core Knowledge and Principles of Medicine, Clinical Teaching, Knowledge of Systems, Introduction about skin and oral mucosa, Oral manifestations of dermatological lesion, Infections, Immune response, Allergy, Sexually transmitted diseases.

الامراض الفموية I (DT 246)

Introduction, Disorders of development of teeth, Dental caries, Other disorders of teeth, Disorders of the dental pulp, Diseases of the periapical tissues, Cysts of the jaws and oral soft tissues, Diseases of the periodontium, Bacterial infections of the oral mucosa, Viral infections of the oral mucosa, Fungal infections of the oral mucosa.

العلاج التحفظي II (DT 351)

Cavity preparation for Class I, Class II and Class V amalgam restoration Cavity preparation for, Dental Amalgam, Pin – Retained Amalgam, Matrices and Wedges, Cavity preparations for Class III, Class, Cavity preparations for Class V tooth colored restorations, Composite resin restoration, Glass ionomer restoration, Pulp protection materials, Cast restoration.

التركيبات الثابتة II (DT 352)

Working cast, Die, Wax pattern, Wax pattern procedure, Impression materials, Impression procedure, Spruing, Investment materials, Investing, Casting, Finishing and polishing, Casting failure.

التركيبات المتحركة II (DT 353)

Relating inclinations of teeth to concepts of occlusion, Processing of Complete denture, Lab remounting, Selective grinding, Recovery of dentures, Introduction to removable partial dentures, Classification of partially edentulous jaws, Dental cast, Components parts of removable partial dentures, Lab Procedures (Fabrication of framework).

الامراض الفموية II (DT 354)

Odontomes and odontogenic tumors, White lesions, keratoses and related disorders of oral mucosa, Oral epithelial tumors, Melanocytic Naevi and malignant melanoma, Oral ulcerations, Vesiculobullous diseases, Connective tissue hyperplasia, Neoplasia and related disorders of oral mucosa, Miscellaneous disorders of oral mucosa, Diseases of salivary glands, Inherited, developmental, inflammatory and metabolic disorders of bones, Paget`s disease, tumors and tumors like lesions of bone, Diseases of temporomandibular joint.

الجراحة العامة (DT 355)

Wound Healing & Wound Infection, Surgical Infection, Common Skin & Soft Tissue Lesion, Pre- & Post-Operative Care of Surgical Patients, Shock, Blood Transfusion& Fluid & Electrolytes, Homeostasis, Principles of Antibiotic therapy, Head Injuries, Trauma & Resuscitation, Local anaesthesia, fitness for anaesthesia, Diseases of salivary glands & Evaluation of thyroid disorders, Common Neck Swellings, Principal of Sepsis, Asepsis Antiseptic, Sterilization, Medical emergencies, Knowledge of Systems and the Diseases of head and neck, Essential Skill to be acquired, Gastro Intestinal Tract, Diseases of conjunctiva, Introduction to ophthalmology course and eye symptoms, Anatomy of eye & orbit, anatomy of eye ball, Examination of eye, Paranasal sinuses, Tumors of nose and paranasal sinuses.

طب الفم I (DT 356)

Introduction to the oral medicine and oral diagnosis course and importance of diagnosis in the patient management process, Principles of history taking and components of case history, The significance of medical history and systems review, Principles of patient examination and techniques of physical examination, Extra and intra oral examination, Lymph nodes examination, The concept of differential diagnosis and establishment of differential as well as definitive diagnosis, Principals and techniques of investigations of different oral diseases and interpretations of their results, Principles of formulating treatment plan, consultations, referral and documentation of the findings, Differential diagnosis and investigations for oral ulceration, Diagnosis of dental caries and other dental anomalies, Differential diagnosis and investigations for cysts.

العلاج التحفظي III (DT 361)

Patient assessment, Examination and diagnosis, Adjunctive aids for examination
Treatment planning, Treatment considerations for elderly patients & Treatment plan
approval, Patient planning, comprehensive care course (CCC), Introduction of
Cariology, Caries diagnosis: traditional aids, modern aids & Prevention of caries,
Caries activity test, Cariogram & Treatment, Control of operative field infection
control.

التركيبات المتحركة III (DT 362)

Local and systemic conditions affecting oral tissues, Oral environment of complete
edentulous patients, Examination, Diagnosis & treatment planning of removable
prosthodontics, Patient education related to complete denture service, Sterilization
and asepsis management, Preparation of oral tissue to receive complete denture,
Anatomical and physiological considerations of impression procedures & retention,
support & stability related to impression making, Jaw relation records & Face bow,
Jaw relation: Vertical relations, Jaw Relation: Horizontal plane (Centric & eccentric
relations), Articulators, Occlusion.

التركيبات الثابتة III (DT 363)

Introduction of partial coverage tooth preparation (definition , advantages ,etc.....),
Preparation of mandibular posterior three quarter crowns, Preparation of anterior
three quarter crowns, Preparation of modifications of anterior & posterior three
quarter crowns:, Preparation for intra-coronal restoration (Inlay), Preparation for
intra-coronal restoration (Onlay), Provisional restorations, Provisional restorations
(Preparation of provisional), Connector , Pontic, Retainer.

علاج العصب I (DT 364)

Introduction to endodontics, The dental pulp and peri-radicular tissues, Morphology
of pulp, Pulp and peri-radicular diseases, Diagnosis and treatment planning in
endodontics, Endodontic microbiology, General classification of endodontic
instruments, Isolation, Access cavity preparation, Working length determination,
Root canal system preparation, Root canal system cleaning and shaping.

الطب الوقائي I (DT 365)

Introduction & The most common problems, Dental caries, prevention of dental
caries, Periodontal diseases & Prevention of periodontal diseases, Fissure sealant,

Modification of diet & plaque control, Fluoride and dental caries, Microbiological aspects of caries prevention, Diet and dental caries, Prevention of pulpal and periapical disease, Prevention of oral mucosal disease, Prevention of traumatic accidents (dental trauma).

طب الفم II (DT 366)

Immunologic diseases, White lesions of the oral mucosa, Red lesions of the oral mucosa, Dry mouth (xerostomia), Oral and facial hyper-pigmentation, Vesiculobullous diseases, Halitosis (oral malodour), Orofacial pain, Taste and abnormalities, Salivary gland diseases, Dental implication of pregnancy, Diseases of the Tongue.

علاج اللثة I (DT 471)

Introduction, Anatomic consideration and defence mechanisms of gingiva, Age changes affecting periodontium, Development (pathogenesis) of periodontal disease, Host defence mechanisms and periodontal disease development, Classification and epidemiology of periodontal diseases, Aetiology of periodontal diseases, Gingival disease, Periodontal disease, Indices used in epidemiology of periodontal diseases.

الطب الوقائي II (DT 472)

Dental Public Health (Introduction, obligation, definition of terms), Prevention of dental disease, Oral Epidemiology, Dental Indices, Epidemiology and etiology of oral cancer, Community Dentistry, Oral Health Education, Factors affecting the practice of the dentistry, Dental Auxiliaries in dental care, Oral Health Promotion.

التركيبات المتحركة IV (DT 473)

Try-in procedure, Remounting procedures & Denture insertion, Specific products related to complete dentures, Problems associated with use of complete denture, Special treatment procedures & Treating abused tissues, Removable partial dentures, Dental surveyor, Components of partial denture frame, Direct retainers, Rest & rest seat and indirect retention, Maxillofacial prosthodontics, Removable partial denture considerations in maxillofacial prosthodontics.

التركيبات الثابتة IV (DT 474)

Metallic substructure, Ceramic substructure, Preparation for extensively damaged teeth, Introduction to occlusion, Articulators and face bow, Intra occlusion

registration, Intra ridiculer restoration (Post and core), Nature of light and selection of shade, Esthetic consideration.

(DT 475) IV العلاج التحفظي

Control of pain during restorative procedures, Tooth colored restorative materials, Biological considerations in operative dentistry, Biological aspect of restorative procedures and materials, Selection of restorative materials, Cavity preparations for classes III amalgam restorations, Cavity preparations for classes VI amalgam restorations, Cavity preparations for Class I, Class II tooth colored restoration., Cavity preparations for Class VI tooth colored restoration, Clinical technique for, direct Class I & class II composite restorations, Clinical technique for direct Class VI composite restorations, Cast gold restoration (Direct gold restoration).

(DT 476) I الجراحة الفموية

Introduction, Preoperative health status evaluation, Prevention and management of medical emergencies, Principles of surgery, Wound repair, Principles of asepsis, Control of haemorrhage during surgery, Drainage & debridement, Post operative care, Local anaesthesia, Exodontia (Armamentarium for basic oral surgery), Principles of uncomplicated (Forceps or intra-alveolar or closed) exodontia.

(DT 481) I تقويم الأسنان

Introduction to orthodontics & terminology in orthodontics, Growth & development, basic concept theories of growth, Development of dentition and occlusion, Stomatognathics, Aetiology of malocclusion, Classification of malocclusion, keys of occlusion, Diagnosis and diagnostic aids, Case history and clinical examination, Crowding, Model analyses, Orthodontic radiology & maturity indicators, Cephalometrics.

(DT 482) II علاج اللثة

Treatment of periodontal disease, Diagnosis, prognosis and treatment plan, Sequence of the diagnostic procedure, Diagnosis aids to clinical diagnosis of periodontal disease, Determination of the prognosis of periodontal diseases, Periodontal instrumentation, Treatment of emergencies, Periodontal therapy, Surgical therapy, Recurrence of periodontal disease, Reconstructive (regenerative) phase, Periodontal management of patients with serious systemic diseases.

(DT 483) II الجراحة الفموية

Principles of complicated (Trans-alveolar, surgical or open) exodontia, Principles of management of impacted teeth, Postoperative patient management, Complication

of exodontia and prevention and management, Soft tissue and dentoalveolar injuries,
Basic Preprosthetic surgery, Advanced Preprosthetic surgery
Principles of endodontic surgery, Transdental Fixation, Re-implantation of teeth,
Hemisection, trisection and root amputation, Cysts of the oral cavity.

طب فم الأطفال I (DT 484)

Introduction, Examination, Diagnosis, Child abuse and neglect, Development and morphology of the primary teeth and permanent teeth, Eruption & shedding, Physical growth and development, Child psychology growth, development behavior and management modification techniques, Dental caries in the child and adolescent Genetic aspects of dental anomalies, Gingivitis and periodontal diseases in children, Dental problems of children with special need.

طب الفم III (DT 485)

Introduction, Dosimetry and dose units, Biologic effects of radiation and risks associated with X-ray, Radiation safety and protection, Imaging principles and techniques, X-Ray film, intensifying screens and grids, Principles of radiographic interpretation, Normal radiographic anatomy, Intraoral radiographic examinations, Panoramic imaging (pantomography or rotational radiography), Extraoral radiographic examinations.

علاج العصب II (DT 486)

Root canal system irrigation, Obturation of root canal system, Endodontic radiography, Endodontic emergencies and their treatments, Intra – canal medications & Endodontic – periodontic relationship, Endodontic surgery, Endodontic complications (Mishaps), its correction and prevention, Endodontic re-treatment (non-surgical), Traumatic injuries, Basis for successful endodontic therapy, Evaluation of endodontic outcomes, Modern concepts in endodontics.

طب فم الأطفال II (DT 591)

Management of the medically compromised patient, Medical emergency in dentistry, Diseases and oral manifestations of systemic disease, Cephalometrics, Oral pathology in children, Examination, diagnosis and treatment planning, Radiography for children, Mechanical and chemotherapeutic home oral hygiene, Pharmaco-therapeutics in children (antibiotics), Dental materials, Pit and fissure sealants and preventive resin restorations, Restorative dentistry.

الجراحة الفموية III (DT 592)

Principles of differential diagnosis and biopsy, Dental implantology, Infection of the soft tissues, Principles of management and prevention of odontogenic infections, Pyogenic infections of soft tissues, Complex odontogenic infections, Infection of the hard tissues., Some non-pyogenic infections of the soft-tissue, The fungal diseases, Odontogenic diseases of the maxillary sinus, Diagnosis and management of salivary gland disorders, Facial pain and neurological disorders.

تقويم الأسنان II (DT 593)

Biology of orthodontic tooth movement, Biomechanics of tooth movement, Anchorage, Preventive orthodontics, Methods of gaining space, expansion, Extractions in orthodontics, Removable appliances, Fixed appliances, Myofunctional appliances, Interceptive orthodontics, Orthodontics records, Deep bite.

العلاج التحفظي V (DT 594)

Modern concepts in cavity preparation, Non carious lesions, Adhesion and Adhesives, Adhesion and Adhesives (Dentin adhesion), Direct Composite restoration, Indirect tooth coloured restoration (Class I and II indirect tooth coloured restorations), Indirect tooth coloured restoration (Class I and II indirect tooth coloured restorations) (Clinical procedure), Management of deep carious lesions, Management of deep carious lesions (Treatment options), Management of mutilated tooth, Failure of restorations.

التركيبات الثابتة V (DT 595)

Diagnosis, Treatment planning, Biological consideration, Periodontal consideration, Laminate veneer, Laminate veneer (Tooth preparation), Resin bonded bridge, Resin bonded bridge (Tooth preparation), Precision attachment
Precision attachment (Technique).

التركيبات المتحركة V (DT 596)

Classification of partially edentulous arches, Clasp – retained partial denture, Diagnosis and treatment planning, Diagnostic cast, Diagnostic findings, Preparation of mouth for removable partial dentures, Preparation of abutment teeth, Impression materials and procedures for removable partial dentures, Surveying procedures (the master cast), Denture base considerations, Principles of partial denture design, Components of cast partial denture.

الجراحة الفموية IV (DT 501)

Management of temporomandibular disorders, Fractures of the mandible, Fractures of the middle third of the facial skeleton, Soft-tissue swellings of the oral mucosa,

Giant-cell lesions of the jaws, Some premalignant conditions of the oral cavity, Odontogenic, non-odontogenic tumours and Odontomes, Correction of dentofacial deformities, Management of patients with orofacial clefts, Surgical reconstruction of defects of the jaws, General anaesthesia and sedation in dentistry.

(DT 502) III طب فم الأطفال

Treatment of deep caries, Vital pulp exposure, and pulpless teeth, Local anaesthesia and pain control for the child and adolescent, Hospital dental services for children and the use of general anaesthesia, Oral surgery for the paediatric patient, Management of trauma to the teeth and supporting tissues, Prosthodontic treatment of the adolescent patient, Oral habits, Managing the developing occlusion Space maintenance in the primary dentition, Non-pharmacologic issues in pain perception and control, Pain and anxiety control, Nutritional considerations for the paediatric dental patient.

(DT 503) VI التركيبات الثابتة

Try in stage, Luting cement, Bridge design (Simple design), Bridge design (combined design), Bridge design (complex design), Manifestation of failure Manifestation of management, Dental implant, Dental implant (Preparation), Crown and bridge removal, Home care and follow up.

(DT 504) VI التركيبات المتحركة

Factors influencing the magnitude of stresses of the abutment teeth, Support for the distal extension denture base, Occlusal relationships for removable partial denture, Laboratory procedures, Relining and rebasing the removable partial denture, Management of Kennedy Class III and IV cases, Try-in of metal framework, inter maxillary relations, Insertion of partial denture, Repair of removable partial dentures and addition of clasps., Special treatment Procedures (over denture), Immediate complete dentures, The single complete denture.

(DT 505) VI العلاج التحفظي

Post – operative pain and hypersensitivity, Complex amalgam restorations, Complex amalgam restorations (clinical technique), Porcelain laminate veneers, Porcelain inlays and onlays, Failure manifestations of restoration, Restoration of endodontically treated teeth, Aesthetic considerations in operative dentistry, Conservative treatment modalities of aesthetic defects, Recent trends in operative dentistry.

(DT 506) III تقويم الأسنان

Space maintainer & space regainer, Study model analysis, Treatment planning in orthodontic, Class I, Treatment of angle's Class II & Class III, Treatment of crowding, AOB & Spacing, Materials used in orthodontics, Soldering & welding, Periodontal considerations, Surgical orthodontics including cleft lip & palate, Retention & relapse, Cleft palate orthodontic treatment, Photography and computers in orthodontics.