

GSL DENTAL COLLEGE & HOSPITAL

Programme Outcomes

Po 1 - Ability to identify the normal structures of oral cavity, differentiating the primary and permanent teeth, growth and development of jaws

Po 2 - Competent to diagnose the common dental and oral diseases, malocclusion, tobacco associated oral lesions, and potentially malignant and malignant conditions

Po 3 - Competent in taking intraoral radiographs and interpret the radiographic findings

Po 4 - Ability to use the proper instruments for a given condition

Po 5 - Knowledge and skill in using dental materials and drugs

Po 6 - Providing full mouth rehabilitation care and aesthetic dental care

Po 7 - Providing dental care for special children

Po 8 - Providing preventive dental care and dental care for medically compromised patients

Po 9 - Knowledge about recent advances in dentistry

Po 10 - Communication, interpersonal and managerial skills

Po 11 - Skills of oral health promotion including primary and secondary prevention, and tobacco habit cessation counselling

Po 12- The ability to respect community values, including an appreciation of a diversity of backgrounds and cultural values

Preclinical phase

Po 13 - Able to demonstrate lab procedures for crown and bridge fabrication

Po 14- Able to perform teeth setting for complete denture prosthesis

Po15 -Able to perform removable and complete denture lab works

Po 16 -Able to fabricate removable orthodontic appliances

Po 17- Preclinical training for endodontics and conservative dentistry

Po 18 - Able to Histological identification of normal oral structures and tooth section

Prosthodontics

P01	CO1- Making primary impression of completely edentulous condition with impression compound and fabrication of special tray
P02	CO2- Able to perform removable and complete denture lab works
P03	CO3- Able to perform teeth setting for removable partial and complete denture prosthesis
P04	CO4- Elicit case history for partially and completely edentulous patients
P05	CO5-Clinical procedures involving impressions, maxillomandibular relationships, wax trails, denture insertions and recall visits for removable and fixed prosthesis
P06	CO6- Understanding the patient's mental attitude and instructing the patient
P07	CO7-Knowledge on chair and operator position for practical and clinical procedures
P08	CO8-Treatment planning and evaluation of diagnostic data
P09	CO9-Knowledge on objectives of impression making, dental materials, techniques and armamentarium
P010	C010- Observing chair side demonstration of clinical procedures

P011	C011-Tooth preparations for different restoration on mannequin
P012	C012- Knowledge about recent dental materials and rehabilitation techniques
P013	C013-Ability to perform implant surgeries
P014	C014- Ability to fabricate oral maxillofacial prosthesis

SKILLS COMPETANCY

LEVEL 1(Basic Skill)

- CO 4 - Elicit case history for partially and completely edentulous patients.
- CO 6 - Understanding the patients, mental attitude. Instructing the patient.
- CO 8 - Treatment planning and evaluation of diagnostic data.

LEVEL 2 (Moderate skill)

- CO 7 - Knowledge on chair and operator position for practical and clinical procedures
- CO 9 - Knowledge on objectives of impression making, materials, techniques and armamentarium
- CO 10 - Observing chair side demonstration of clinical procedures.
- CO 11 - Visualizing techniques on videos.
- CO 14 - Knowledge about recent dental materials and rehabilitation techniques

LEVEL 3 (High Skill)

- CO 1- Making primary impression of completely edentulous condition with Impression compound and fabrication of special tray.
- CO 2 – Able to perform removable partial and complete denture laboratory works.
- CO 3 – Able to perform teeth setting for removable partial and complete denture prostheses.
- CO 5 - Clinical procedures involving impressions, maxillomandibular relationships, wax trials, denture insertions and recall visits for removable prosthesis and for Fixed Prosthesis
- CO 12 - Tooth preparation for different restorations on mannequin
- CO 13 - Laboratory skills for fabrication of removable prosthesis.

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PERIODONTOLOGY

PO	COURSE OUTCOMES
PO 1	Ability to identify the normal structures of the oral cavity
PO2	Competent to diagnose the common dental and oral diseases
PO 3	Competent in interpreting the radiographic findings
PO10	Ability to use the proper instruments for a given condition
PO8	Providing preventive dental care and dental care for medically compromised patients
PO9	Knowledge about recent advances in dentistry
PO10	Communication, interpersonal and managerial skills
PO11	Skills of oral health promotion including Primary and Secondary Prevention
PO12	The ability to respect community values, including an appreciation of a diversity of backgrounds and cultural values.

Po 1 - Ability to identify the normal structures of oral cavity, differentiating the primary and permanent teeth, growth and development of jaws.
Po 2 - Competent to diagnose the common dental and oral diseases, gingival and periodontal abnormalities and diseases.
Po 3 - Competent in taking IOPAR and interpret the radiographic finding.
Po 4 - Ability to use proper instruments for the specific treatment procedures.
Po 5 - Knowledge and skill in using dental materials and drugs.
Po 6 - Providing full mouth periodontal treatment and aesthetic dental care.
Po 7 - Providing oral health care for special children.
Po 8 - Providing preventive dental care and oral health care for medically compromised patients.
Po 9 - Knowledge about recent advances in periodontology.
Po 10 - Communication, interpersonal and managerial skills.
Po 11 - Skills of oral health promotion including primary and secondary prevention, and tobacco habit cessation counselling.
Po 12 - Ability to respect community values, including appreciation of a diversity of backgrounds and cultural values.

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ORAL MEDICINE AND RADIOLOGY

Program Outcome	Course Outcome
PO2	CO1. Diagnosis of pre-malignant and malignant disorders
PO5	CO2. Able to execute various diagnostic procedures and prescribe medications
PO10	CO3. Case history taking and clinical examination
PO11	CO4. Able to diagnose tobacco induced oral lesions and conduct tobacco cessation counselling for needy patients
PO8	CO5 Provide treatment for dental patients with systemic diseases
PO5	CO6. Formulation of treatment protocol and writing a prescription for oral mucosal lesions
PO2	CO7. Diagnosing and managing Cysts & tumours of head & neck region, bacterial, viral, and fungal oral lesions
PO3	CO8. Demonstration of techniques of intra oral radiography (IOPA, Occlusal, and bitewing)
PO1, PO3	CO9. Interpretation of normal radiographic anatomy and the pathology
PO2	CO10. Diagnosing muco-cutaneous lesions, TMDs and Orofacial pain
PO13	CO11. Demonstration of techniques of Extra Oral Radiography (OPG, Lateral Ceph, Tmj Views, Reverse Townes, PNS, Sub Mento Vertex View, CBCT)
PO4	CO12. Able to perform cytological Smears, FNAC and Biopsy for Oral Mucosal Lesions
PO13	CO13. Able to interpret Cone Beam Computed Tomography Radiographs And implant planning
PO14	CO14. Able to estimate age using radiographs in Forensic Odontology

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Paediatric and Preventive Dentistry

Program Outcome	Course Outcome
Po- 10	CO-1 Effective implementation of “Psychological ownership” Clinics
Po1, Po-11, Po-2	CO-2 Provide age-appropriate Anticipatory guidance
Po-7, Po- 8, Po-9	CO-3 Preventive measures for caries-topical fluoride application, pit and fissure sealants and preventive resin
Po – 4, Po-5, Po-6	CO-4 Class I Restorations with GIC and composites
Po-7, Po-8, Po-9, Po- 4	CO-5 Minimally invasive procedures
Po – 3, Po - 4, Po – 10.	CO-6 Basic extractions
Po -4, Po -5, Po-6, Po7, Po -8, Po-10.	CO-7 Total rehabilitation of early childhood caries in children
Po-1, Po- 2, Po-3, Po-10	CO-8 Art of case history recording

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ORAL AND MAXILLOFACIAL SURGERY

CO1	Student should be able to identify the tooth indicated for extraction
CO2	Student should be able to differentiate the primary and permanent teeth
CO3	Student should be able to interpret the IOPA and OPG radiograph to facilitate diagnosis and treatment planning
CO4	Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral surgical procedures
CO5	<p>Student should be able to select the appropriate quantity of local anaesthetic agents and perform the appropriate technique of administration of LA and also able to prescribe post op medications,</p> <p>Should be able to perform various types of suturing techniques and dental wiring on models</p>
CO6	Student should be able to perform total extraction procedures and manage complications
CO7	Student will be able to perform extraction for special children and medically compromised patients
CO8	Student will be able to discuss about the various advanced oral surgical procedures
CO9	Student should be able to display effective interpersonal communication and managerial skills on patient care

	Course Objective
PO1	CO1- Student should be able to identify the tooth indicated for extraction CO2- Student should be able to differentiate the primary and permanent teeth
PO2	CO1- Student should be able to identify the tooth indicated for extraction
PO3	CO3- Student should be able to interpret the IOPA and OPG radiograph to facilitate diagnosis and treatment planning
PO4	CO4- Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral surgical procedures
PO5	C05- Student should be able to select the appropriate quantity of local anaesthetic agents and perform the appropriate technique of administration of LA and also able to prescribe post op medications, C07- Student will be able to perform extraction for special children and medically compromised patients
PO6	C06- Student should be able to perform total extraction procedures and manage complications CO8- Student will be able to discuss about the various advanced oral surgical procedures
PO7	C07- Student will be able to perform extraction for special children and medically compromised patients
PO8	C07- Student will be able to perform extraction for special children and medically compromised patients
PO9	CO8- Student will be able to discuss about the various advanced oral surgical procedures
PO10	C09- Student should be able to display effective interpersonal communication and managerial skills on patient care
PO11	C09- Student should be able to display effective interpersonal communication and managerial skills on patient care

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Oral Anatomy, Histology and Embryology

At the end of 1st BDS year, the student

CO1 should be able to understand the histological aspects & functions of the oral tissues.

CO2 should be able to understand the embryological aspects of oral & paraoral structures

CO3 should be able to acquire the skill to carve life size wax models of permanent teeth

CO4 should be able to identify histological slides of oral tissues and ground sections of teeth

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Oral Pathology

PROGRAMME OUTCOMES:

- PO 1. The student must understand the pathological processes of oral diseases.
- PO 2. The student must understand the pathological processes of oral diseases, compare and diagnose based on clinical, X-ray and histopathological findings on oral and paraoral structures.
- PO 3. They would have studied and made oral samples and histological slides of the samples. . The student would have learned and been able to recognize and diagnose disease based on microscopy.
- PO 4. The ability to understand various pathological processes related to the oral cavity and the manifestations of common diseases, their diagnosis and the relationship with the clinical pathological process
- PO 5. They can understand the oral manifestations of systemic illness to help correlate with systemic physical signs and laboratory findings.
- PO 6. Ability to understand the biological principles underlying the treatment of oral diseases.
- PO 7. Ability to understand the principles of certain basic aspects of forensic science.
- PO 8. Student is expected to present scientific information relevant to the field at conferences as both posters and oral presentations and participate in group discussions.
- PO 9. Student must understand current research methodology, data collection and interpretation, be able to carry out research projects from a clinical and/or epidemiological perspective, work with current databases, automatic information service systems, references and the ability to write scientific articles.

CO 1 Oral mucosa anatomy and histology. Appearance of healthy oral mucosa.

CO 2 Primary and secondary lesions of oral mucosal disease, classification of oral mucosal disease.

CO 3 Etiology and development of diseases characterized by bullous lesions.

CO 4 Etiology and development of diseases characterized by ulcerative lesions.

CO 5 Etiology and occurrence of diseases characterized by white lesions.

CO 6 Red and red/white lesions, pigmented lesions and papillary lesions of the oral mucosa.

CO 7 Occurrence of oral mucosa general condition and disease.

CO 8 Lip and tongue characteristics and pathological development.

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ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

Co1: Able to list the indications and components, comprehend the mechanism of action and select appropriate removable orthodontic appliance in any given clinical scenario .

Co2: Able to recall the steps, fabricate the components of Hawley's removable orthodontic appliance and also acrylicize Hawley's and habit breaking appliance accurately in a preclinical condition

Co3: Able to recall the steps, fabricate and insert the appliance, give instructions and follow up in a clinical condition

Co4: Able to describe the functional development of dental arches and occlusion, growth & development of the jaws

Co5: Able to classify malocclusion and diagnose using an appropriate classification system

Co6: Able to elicit history, perform a clinical examination and diagnose the malocclusion in a clinical scenario.

Co7: Able to explain the uses of IOPA, OPG and lateral cephalogram pertaining to orthodontic diagnosis

Co8: Able to interpret IOPA, OPG and trace / interpret lateral cephalogram pertaining to orthodontic diagnosis

Co9: Able to select and use appropriate instruments for fabrication of removable orthodontic appliances Co10: Able to recall the composition and properties of alginate, dental stone, heat cure & self-cure acrylic and commonly used orthodontic wires

Co11: Able to demonstrate manipulation of alginate and impression making for a patient

Co12: Able to manipulate dental stone & self-cure acrylic and perform necessary wire bending

Co13: Able to explain the malocclusion & treatment plan and give post appliance insertion instructions to patients

Co 14 – able to select and use appropriate instruments for fabrication of myofunctional appliances required for the growing children.

Programme outcome:

Po 1 - Ability to diagnose, analyse and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures.
Po 2 - Ability to identify normal and abnormal structures in oral cavity.
Po 3- Able to differentiate primary and permanent teeth and development of the jaws.
Po 3 – competent in Interpreting the extraoral radiographic findings.
Po4 – ability in providing special care to the special child
Po 5 – Ability in providing preventive dental care for medically compromised patients.
Po 6 – knowledge about recent advancements
Po 7 – ability in identifying the aetiology of malocclusion.
Po 8 – competent in interpreting the different analysis using radiographs.
Po 9 – ability to identify the importance of hand wrist radiographs in orthodontics.
Po 9 – ability in interpreting orthodontic treatment planning of dental and skeletal malocclusions.
Po 10 – ability in fabrication of different appliances required for different malocclusion cases.
Po 11 – knowledge in functional development of dental arches and occlusion.
Po 12 – ability in fabricating occlusal splints
Po 13 – ability in fabricating different myofunctional appliances required for growing children.
Po 14 – ability in taking photographs of both intra oral and extra oral for maintaining patient records.

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Conservative dentistry and endodontics

S.NO	PROGRAMME OUTCOMES
PO1	Ability to identify the normal structures of oral cavity, differentiating the primary and permanent teeth, growth and development of jaws.
PO2	Competent to diagnose the common dental and oral diseases, malocclusion and potentially malignant conditions
PO3	Competent in taking intraoral radiographs and interpret the radiographic findings.
PO4	Ability to use the proper instruments for a given condition
PO5	Knowledge and skill in using dental materials and drugs
PO6	Knowledge and skill in using advanced equipment in conservative dentistry and endodontics
PO7	Providing full mouth rehabilitation care and aesthetic dental care
PO8	Providing dental care for differently abled patients
PO9	Providing preventive dental care and dental care for medically compromised patients
PO10	Knowledge about recent advances in dentistry
PO11	Communication interpersonal and management skills
PO12	Preclinical training for endodontics and conservative dentistry on mannequin
PO13	The ability to respect community values including an appreciation of a diversity of backgrounds and cultural values.
PO14	Providing knowledge through interdepartmental treatment planning and in geriatric patients.

S.NO	COURSE OUTCOMES
CO1	Competent to diagnose all carious lesions
CO2	Adjust patients chair position in relevance to different procedures. Maintain appropriate posture and position during interaction with the patient and performing procedures
CO3	Demonstrate recommended hand washing techniques and replacement of personal protective barriers
CO4	Provide restorative management for all types of carious lesions with no pulpal involvement with restorative materials such as silver amalgam, glass ionomer cement and composite resin
CO5	Placement of intermediate restoration at recommended conditions
CO6	Perform clinical evaluation for deep carious lesions by adopting direct and indirect pulp capping procedures
CO7	Perform direct Midline diastema closure with composite resin layering procedure
CO8	Understand the principles of aesthetic dental procedures
CO9	Competent to perform restorative management for all types of carious lesions in phantom head models
CO10	Competent to manipulate different dental materials
CO11	Competent to identify and use dental restorative instruments
CO12	Competent to perform single visit root canal treatment
CO13	Competent to perform micro endodontic procedures
CO14	Competent to perform endodontic surgeries

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PUBLIC HEALTH DENTISTRY

PO	COURSE OUTCOMES
PO 1: Knowledge of basis of public health, preventive dentistry, health problems in India.	CO 1: Knowledge about various commonly used indices.
PO 2: Knowledge on nutrition, environment and their role in health.	CO 2: Knowledge about various instruments used for recording indices.
PO 3: Basics of dental statistics.	CO 3: Recording a comprehensive case history.
PO 4: Epidemiological methods, National oral health policies.	CO 4: Accurate recordings of scores and various indices.
PO 5: Identifying the health problems effecting the society.	CO 5: Diagnosis of common oral findings.
PO 6: Conducting health surveys, health education classes and deciding health status.	CO 6: Formulation of treatment plan based on various levels of prevention.
PO 7: Communicating the needs of the community efficiently.	CO 7: Capable of providing health education to rural communities.
PO 8: Recent methodologies in preventing oral diseases.	CO 8: Pit and fissure sealants and fluoride application.

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