



## **DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY**

### **LESSON PLAN**

**Class:** IV BDS

**Time:** 5 hours

#### **TOPIC- DENTO-ALVEOLAR SURGERY**

##### **Hour 1**

###### **General Learning Objectives**

At the end of the class the student should have basic knowledge about impacted teeth and various complicated extractions.

###### **Specific Learning Objectives**

At the end of the class the student should be able to recall incidence, etiology, classification, indications, contraindications and steps in management of impacted teeth and difficult extraction procedures such as root canal treated tooth, root stumps, grossly decayed tooth.

###### **Lesson Outline**

- General factors
- Incidence, etiology, classification of impacted teeth
- Indications and contraindications of impacted teeth

###### **Learning Outcome**

The learner should have knowledge of types of impacted teeth.

##### **Hour 2**

###### **General Learning Objectives**

At the end of the class the student should have basic knowledge about impacted teeth and various complicated extractions such as root canal treated tooth, root stumps, grossly decayed tooth.

###### **Specific Learning Objectives**

The learner should be able to assess and identify the types of impacted teeth clinically and interpret radiographic investigation.



### **Lesson Outline**

- Assessment: clinical and radiological of impacted teeth

### **Learning Outcome**

The learner should be able to identify the types of impacted teeth clinically and radiographically.

### **Hour 3**

#### **General Learning Objectives**

At the end of the class the student should have basic knowledge about anaesthesia administration and management of possible complications.

#### **Specific Learning Objectives**

At the end of the class the student should recall various indications & contraindications and complications pre and post anaesthesia administration and its management.

### **Lesson Outline**

- Anaesthetic considerations.

### **Learning Outcome**

The learner should be able to select an appropriate case and should have knowledge of management of any anaesthetic complication.

### **Hour 4**

#### **General Learning Objectives**

At the end of the class the student should have basic knowledge about techniques of extraction of transalveolar extraction.

#### **Specific Learning Objectives**

At the end of the class the student should recall steps in transalveolar extractions in various complex scenarios such as root canal treated tooth, root stumps, grossly decayed tooth.





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### Lesson Outline

- Transalveolar extraction of root canal treated tooth and root pieces.

### Learning Outcome

The learner should have knowledge of difficult extractions.

### Hour 5

#### General Learning Objectives

At the end of the class the student should have basic knowledge about techniques of extraction of impacted molars and canine.

#### Specific Learning Objectives

At the end of the class the student should recall steps in surgical procedures in extraction of impacted molars and canine their indications, contraindications and management of possible complications.

### Lesson Outline

- Surgical procedures: -Impacted maxillary 3<sup>rd</sup> molar  
-Impacted mandibular 3<sup>rd</sup> molar  
-Impacted canines

### Learning Outcome

The learner should have knowledge of surgical extraction of impacted teeth.

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**DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY**

**LESSON PLAN**

Class: IV BDS

Time: 1 hour

**TOPIC- ENDODONTIC SURGERY**

**Hour 1**

**General Learning Objectives**

At the end of the class the student should have knowledge about endodontic surgeries and periapical lesions.

**Specific Learning Objectives**

The learner should be able to manage peri-apical lesions, know apicectomy, retrograde filling in cases of apicectomy, know how to re-implant an avulsed tooth & learn method of splinting.

**Lesson Outline**

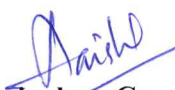
- Introduction
- Classification
- Apicectomy
- Re-implantation procedures

**Learning Outcome**

The learner should have in depth knowledge about management of small peri-apical lesions, clear understanding about indications for apicectomy, procedure of apicectomy.

  
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## LESSON PLAN (CLINICAL)

Class: IV BDS

### TOPIC-MANAGEMENT OF MEDICALLY COMPROMISED PATIENTS

#### General Learning Objectives

The learner will have the basic knowledge about the management in dental office of medically compromised patients.

#### Specific Learning Objectives

The student should be able to recall etiology, classification, clinical features and general management and steps in management of patients having syncope, hypertension, epilepsy and other medical conditions


#### Lesson Outline

Prevention and management of –

- Syncope
- Hypertension
- Epilepsy
- Diabetes mellitus
- Toxicity of local anesthetic
- Hypothyroidism and hyperthyroidism

#### Learning Outcome


- The learner should have understanding of the basics of all medical conditions and their management in dental office.

  
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## LESSON PLAN (CLINICAL)

**Class:** IV BDS

### TOPIC- EXODONTIA

#### **General Learning Objectives**

The learner will have brief overview of exodontia .

#### **Specific Learning Objective**

The student should know about introduction of exodontia, should be able to recall various principles of extraction, its indications, its relative and absolute contraindications, classification, complications and its management and prevention.

#### **Lesson Outline**

- Introduction, principles of extraction
- Indications, contraindications
- Methods of extraction - Forceps
  - Transalveolar
- Complications- prevention and management

#### **Learning Outcome**

The learner should know the definition, proper techniques of exodontia along with its indications and absolute/relative contraindications.

  
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## LESSON PLAN (CLINICAL)

**Class:** IV BDS

### TOPIC- MAXILLARY AND MANDIBULAR TECHNIQUES OF ANESTHESIA

#### **General Learning Objectives**

The learner will have knowledge about the techniques of local anesthesia of maxilla and mandible.

#### **Specific Learning Objectives**

The learner should be able to recall various steps in all techniques of delivering local anesthetic agent, anatomic landmarks, areas anesthetised, indications, contraindications and specific complications of each technique of local anesthesia in maxilla and mandible.

#### **Lesson Outline**

- Techniques of local anesthesia of maxilla.
- Techniques of local anesthesia of mandible.

#### **Learning Outcome**

The learner should know all maxillary and mandibular anaesthetic techniques & its landmarks to prevent any complications.

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**LESSON PLAN (CLINICAL)**

Class: III BDS

**TOPIC- ASEPSIS AND STERILIZATION**

**General Learning Objectives:**

The learner must know about asepsis, techniques of sterilization, biomedical waste management.

**Specific Learning Objectives:**

The learner must be able to understand- the difference between asepsis and sterilization, various techniques of asepsis and sterilization and colour based waste disposal system and further treatment of biomedical waste

**Lesson Outline:**

- Principles of infection control
  - Asepsis
  - Different methods of sterilization
- Cross infection, HIV/AIDS and hepatitis

**Learning Outcome:**

The learner must know about importance of asepsis, all the techniques of sterilization & biomedical waste management.

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**LESSON PLAN (CLINICAL)**

**Class: III BDS**

**TOPIC- NERVE PHYSIOLOGY AND PAIN**

**General Learning Objectives**

The learner must have knowledge about pain and nerve physiology.

**Specific Learning Objectives**

The student must know-the nerve physiology, theories of pain and the pain pathway

**Lesson Outline**

- Neurophysiology of facial pain
- Theories of pain and pain pathway

**Learning Outcome**

The learner must be thorough with pain pathway & must know how to manage pain.

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DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY

## LESSON PLAN (CLINICAL)

**Class:** III BDS

## TOPIC- TRIGEMINAL NERVE

### General Learning Objectives:

The learner must have knowledge about the trigeminal nerve and its branches

### Specific Learning Objectives:

The learner must know the nuclei, functional components, course and branches of the trigeminal nerve

### Lesson Outline:

- Nuclei
- Functional components
- Course
- Branches

**Learning Outcome:**

The learner must know about ophthalmic, maxillary and mandibular branches of the trigeminal nerve in detail.

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### LESSON PLAN

**Class: I BDS**

**Time: 1hr**

#### Topic

#### The stages in amelogenesis

**General objectives:** At the end of the class the learners will be able to:

Understand the stages in amelogenesis

**Specific learning objectives:** At the end of the class the learners will be able to:

Recall: The stages in amelogenesis

Interpret: The stages in amelogenesis

#### Lesson outline:

Presecretory

Secretory

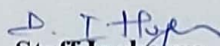
Transition

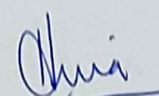
Maturation stages in amelogenesis

#### Teaching learning methods/media:

Team teaching

ICT based lecture

  
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APRIL 2022  
KALABURAGI

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**LESSON PLAN**

**Class: I BDS**

**Time: 1hr**

**Topic**

**The clinical considerations of enamel**

**General objectives:** At the end of the class the learners will be able to:

Know the clinical considerations of enamel

**Specific learning objectives:** At the end of the class the learners will be able to:

Recall: The clinical considerations of enamel

Interpret: The clinical considerations of enamel

**Lesson outline:**

The clinical considerations of enamel

**Teaching learning methods/media:**

Team teaching

ICT based lecture

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## LESSON PLAN

**Class: I BDS**

**Time: 1hr**

### Topic

### Age Changes in Enamel

**General objectives:** At the end of the class the learners will be able to:

Know the age Changes in Enamel

**Specific learning objectives:** At the end of the class the learners will be able to:

Recall: Age Changes in Enamel

Interpret: Age Changes in Enamel

### Lesson outline:

Age Changes in Enamel

### Teaching learning methods/media:

Team teaching

ICT based lecture

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## LESSON PLAN

Class: I BDS

Total No. of hours: 175

### Topic : Practical - Carving of wax blocks

**General Objectives:** At the end of the class, learners will be able to:  
Learn the morphology of individual tooth.

**Specific learning objectives:** At the end of the class, the learners should be able to:

Interpret: Identify the tooth

#### **Lesson outline:**

##### **Basic carving**

- Cube
- Cuboid
- Cylinder
- Cone
- Pyramid
- Dumbbell

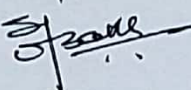
##### **Tooth carving**

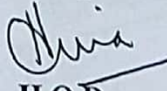
- Maxillary central incisor
- Mandibular central incisor
- Maxillary lateral incisor
- Mandibular lateral incisor
- Maxillary canine
- Mandibular canine
- Maxillary 1<sup>st</sup> premolar
- Mandibular 1<sup>st</sup> premolar
- Maxillary 2<sup>nd</sup> premolar
- Mandibular 2<sup>nd</sup> premolar
- Maxillary 1<sup>st</sup> molar
- Mandibular 1<sup>st</sup> molar
- Maxillary 2<sup>nd</sup> molar
- Mandibular 2<sup>nd</sup> molar

#### **Demonstration of preparation of ground section**

**Teaching learning method/ media:** Demonstration of tooth carving, Assignments

  
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### LESSON PLAN

Class: I BDS

Total No. of hours: 10

#### Topic: Practical- Identification of individual tooth

**General Objectives:** At the end of the class, learners will be able to:

Learn the morphology of individual tooth.

**Specific learning objectives:** At the end of the class, the learners should be able to:

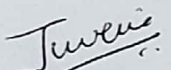
Interpret: Identify the tooth

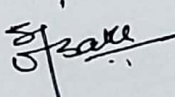
#### Lesson outline:

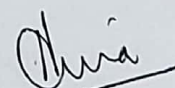
##### specimens

- Deciduous teeth
- Maxillary central incisor
- Mandibular central incisor
- Maxillary lateral incisor
- Mandibular lateral incisor
- Maxillary canine
- Mandibular canine
- Maxillary 1<sup>st</sup> premolar
- Mandibular 1<sup>st</sup> premolar
- Maxillary 2<sup>nd</sup> premolar
- Mandibular 2<sup>nd</sup> premolar
- Maxillary 1<sup>st</sup> molar
- Mandibular 1<sup>st</sup> molar
- Maxillary 2<sup>nd</sup> molar
- Mandibular 2<sup>nd</sup> molar

**Teaching learning method/ media:** Identification of tooth specimens

  
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### LESSON PLAN

Class: I BDS

Total No. of hours: 15

#### Topic: Practical- Identification of caste and study models

**General Objectives:** At the end of the class, learners will be able to:

Identify the caste.

**Specific learning objectives:** At the end of the class, the learners should be able to:

Interpret: Identify the caste and model

**Lesson outline:**

#### Caste

- Primary dentition
- Permanent dentition
- Mixed dentition

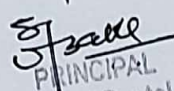
#### Tooth models

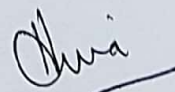
- Permanent teeth of both arch

Cross section and transverse section of maxilla and mandible with teeth

**Teaching learning method/media:** Identification of tooth model and caste

  
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## LESSON PLAN

Class: I BDS

Total No. of hours: 50

### Topic: Practical- Identification of the histological slides

**General Objectives:** At the end of the class, learners will be able to:

Identify the histological slides and draw the diagrams.

**Specific learning objectives:** At the end of the class, the learners should be able to:

Interpret: Histological features in the given slide under the microscope.

#### **Lesson outline:**

- Haematoxylin and eosin stain
- Plasma cells and lymphocytes
- Giant cells
- Bud stage of tooth development
- Cap stage of tooth development
- Early bell stage of tooth development
- Late bell stage of tooth development (root formation)
- Enamel rods
- Hunter schreger bands
- Tufts, lamellae, spindles
- Incremental lines of retzius
- Neonatal lines
- Gnarled enamel
- Dentinoenamel junction
- Dentinal tubules
- Incremental lines of von ebner
- Contour lines of owen
- Neonatal lines
- Tome's granular layer
- Interglobular dentin
- Intraglobular dentin
- Secondary dentin
- Intertubular dentin
- Dead tracts
- Tertiary dentin
- Sclerotic dentin
- Cellular cementum
- Acellular cementum



- Cementoenamel junction
- Type I overlapping
- Type II butt
- Type III gap
- Sharpey's fibers
- Hypercementosis
- Zones of pulp
- Pulp stones
- Principle fibers of PDL
- Haversian system
- Trabeculated bone
- Mature and immature bone
- Mucous salivary gland
- Serous salivary gland
- Mixed salivary gland
- Maxillary sinus lining
- Parakeratinized epithelium
- Orthokeratinized epithelium
- Palate (antero lateral zone )
- Palate (postero lateral zone )
- Alveolar mucosa
- Vermillion border of lip
- Tongue – circumvallate papillae
- Tongue – fungiform papillae
- Tongue – filiform papillae
- Dentogingival junction
- Skin
- Histological sections of TMJ

**Decalcification, paraffin section and H & E staining**

**Teaching learning method/ media:** Team teaching, Group discussions, Assignments

Microscopic slides, Hand outs, LCD screen

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**LESSON PLAN**

**Class:** 4<sup>th</sup> BDS

**Time:** 1 hour

**TOPIC: ANCHORAGE IN ORTHODONTICS PART I**

**GENERAL OBJECTIVE:**

At the end of the lecture, learner will have knowledge of basics of anchorage in orthodontics and their types.

**SPECIFIC LEARNING OBJECTIVES:**

At the end of the lecture the students should be able to

- **Recall:** types of anchorage and their classification according to the use.
- **Understand:** anchorage, classification according to use, location and the amount of anchorage offered.


**LESSON OUTLINE:**

**Introduction to malocclusion**

- Introduction
- Definition
- Factors affecting resistance of a tooth to a given force
- References

**T-L METHOD/ MEDIA:** Team Teaching ICT based lecture \ Audio-Visual Aid

  
Staff Incharge

  
H.O.D

HOD/INCHARGE  
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**LESSON PLAN**

**Class:** 4<sup>th</sup> BDS

**Time:** 1 hour

**Topic: ANCHORAGE IN ORTHODONTICS PART II**

**GENERAL OBJECTIVE:**

At the end of the lecture, learner will have knowledge of basics of anchorage in orthodontics and their types.

**SPECIFIC LEARNING OBJECTIVES:**

At the end of the lecture the students should be able to

- **Recall:** types of anchorage and their classification according to the use.
- **Understand:** anchorage, classification according to use, location and the amount of anchorage offered


**LESSON OUTLINE:**

**Anchorage in orthodontics part II**

- Introduction
- Types of anchorage
- Extra oral anchorage
- Intraoral anchorage
- Reinforcement of anchorage
- References

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**LESSON PLAN**

Class: 4<sup>th</sup> BDS

Time: 1 hour

Topic: **BIOLOGY OF TOOTH MOVEMENT PART I**

**GENERAL OBJECTIVE:**

At the end of the lecture, learner will have knowledge pertaining to orthodontic tooth movements, different theories as to how a tooth movement occurs.

**SPECIFIC LEARNING OBJECTIVES:**

At the end of the lecture the students should be able to

- **Recall:** various theories and phases of orthodontic tooth movements
- **Understand:** how a bone remodeling is involved in tooth movement and biochemical control of tooth movement.


**LESSON OUTLINE:**

**Biology of tooth movement part I**

- Introduction
- Theories of tooth movement – pressure theory, blood flow theory, piezoelectricity theory
- Conclusion
- References

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**LESSON PLAN**

Class: 4<sup>th</sup> BDS

Time: 1 hour

**Topic: BIOLOGY OF TOOTH MOVEMENT PART II**

**GENERAL OBJECTIVE:**

At the end of the lecture, learner will have knowledge pertaining to orthodontic tooth movements, different theories as to how a tooth movement occurs.

**SPECIFIC LEARNING OBJECTIVES:**

At the end of the lecture the students should be able to

- **Recall:** various theories and phases of orthodontic tooth movements
- **Understand:** how a bone remodeling is involved in tooth movement and biochemical control of tooth movement.


**LESSON OUTLINE:**

**Biology of tooth movement part II**

- Introduction
- Phases of tooth movement
- Bone resorption – direct and undermining bone resorption
- Bone resorption
- Biochemical control of tooth movement
- Conclusion
- References

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**LESSON PLAN**

Class: 4<sup>th</sup> BDS

Time: 1 hour

**Topic: BIOMECHANICS IN ORTHODONTICS PART II**

**GENERAL OBJECTIVE:**

At the end of the lecture, learner will have knowledge pertaining to basics of mechanics involved in tooth movement and simplifying concepts for clinical application

**SPECIFIC LEARNING OBJECTIVES:**

At the end of the lecture the students should be able to

- **Recall:** physiology of tooth movement and forces involved in tooth movement
- **Understand:** how the forces at different sites causes various tooth movements.


**LESSON OUTLINE:**

**Biomechanics of tooth movement part I**

- Introduction
- Physiology of tooth movement
- Histology of tooth movement
- Optimum orthodontic force
- Hyalinization
- Conclusion
- References

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**ALBADAR RURAL DENTAL COLLEGE AND HOSPITAL**

**DEPARTMENT OF PERIODONTOLOGY**

**4<sup>th</sup> Year BDS**

**Paper Title: Clinical Discussion**

**LESSON PLAN**  
**2022-2023**

Class: BDS IV Year

Time: 30 Minutes

**Topic: Classification of instruments**

**Learning objective:** At the end of the session, subjects will be able to explain about all the instruments which are basic necessity to perform minor and major surgeries.

**Lesson plan:**

- ✓ Classification of periodontal instruments
- ✓ General principles of instrumentation
- ✓ Principles of scaling and root planning
- ✓ Ultrasonic and sonic instruments Instrument sharpening
- ✓ Periodontal probes.
- ✓ Explorers
- ✓ Scaling, root planning and curettage instruments
- ✓ The Periodontal Endoscope.
- ✓ Cleaning and polishing instruments

**Learning outcome:** At the end of the session, the learners should be able to differentiate between different instruments used for the treatment

**Teaching learning method/ media:** Group discussion .

**Resources:**

- Carranza's Clinical Periodontology - 10<sup>th</sup> Edition
- Fundamentals of instrumentation

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**LESSON PLAN**

Class: BDS IV Year

Time: 30 Minutes

**Topic: Principles of instrumentation.**

**Learning Objectives:** At the end of the class the students should be able to recall detail about principles of instruments and its importance.

**Lesson outline**

- ✓ Accessibility: Positioning of Patient and Operator
- ✓ Visibility, Illumination, and Retraction
- ✓ Condition and Sharpness of Instruments
- ✓ Maintaining a Clean Field
- ✓ Instrument Stabilization
- ✓ Instrument Activation
- ✓ Instruments for Scaling and Root Planing.

**Learning outcome:** Difference between Instruments for Scaling and Root Planning

**Teaching learning method/ media:** Group discussion and demonstration.

**Resources:**

- Carranza's Clinical Periodontology - 10<sup>th</sup> Edition
- Fundamentals of periodontal instrumentation and advanced root instrumentation - Jill S Nield Gehrig – 7<sup>th</sup> edition

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**LESSON PLAN**

Class: BDS IV Year

Time: 30 Minutes

**TOPIC: CASE HISTORY (PART-I)**  
**(GINGIVAL STATUS AND PERIODONTAL STATUS)**

**General objective:** At the end of the session, learners will be able to explain about the gingival and periodontium and its parts and its condition in disease.

**Lesson plan:**

- ✓ Gingival status
- ✓ Colour
- ✓ Size
- ✓ Contour
- ✓ consistency
- ✓ Surface Texture
- ✓ Exudation
- ✓ Frenal attachment
- ✓ Position of gingival
- ✓ Bleeding on probing
  
- ✓ Periodontal Status
- ✓ Periodontal pocket
- ✓ Furcation involvement
- ✓ Mobility
- ✓ Attachment loss

**Learning outcome:** At the end of the session, the learners should be able to differentiate between healthy and diseased gingival status and periodontal status.

**Teaching learning method/ media:** group discussion and demonstration.

**Resources:**

- Carranza's Clinical Periodontology - 10<sup>th</sup> Edition

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**LESSON PLAN**

Class: BDS IV Year

Time: 1 Hour

**TOPIC: CASE HISTORY (PART-II)**

- I) **DIAGNOSIS**
- II) **PROGNOSIS**
- III) **TREATMENT PLAN**

**General objective:** At the end of the session, learners will be able to explain about the diagnosis, prognosis and its treatment plan of the periodontal disease.

**Lesson plan:**

✓ **DIAGNOSIS**

- ✓ Introduction
- ✓ Case history
- ✓ Extra oral examination
- ✓ Intraoral examination
- ✓ Etiologic factors
- ✓ Study models
- ✓ Laboratory investigations
- ✓ Radiographic examination
- ✓ Supplementary diagnostic aids
- ✓ Diagnosis of periodontal diseases
- ✓ Conclusion

✓ **PROGNOSIS**

- ✓ Definition
    - Types of prognosis
      - Overall v/s Individual Tooth Prognosis
    - Factors in Determination of Prognosis
      - Overall clinical factors
      - Systemic & environmental actors
      - Local factors
      - Prosthetic & restorative factors
    - Relationship between diagnosis & prognosis\ul style="list-style-type: none;">    - Prognosis for patients with gingival diseases
    - Prognosis for patients with periodontitis
- ✓ Revaluation of prognosis after phase i therapy

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### ✓ TREATMENT PLAN

- Master plan for total treatment
- Extracting or preserving a tooth
- Therapeutic procedures
- Explaining treatment plan to the patient

**Learning outcome:** At the end of the session, the learners should be able to diagnose proper condition of the tooth and its surrounding structure its prognosis and its treatment plan in the success of periodontal disease.

**Teaching learning method/ media:** group discussion and demonstration.

### **Resources:**

- Carranza's Clinical Periodontology - 10<sup>th</sup> Edition

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