



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

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

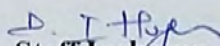
Transition

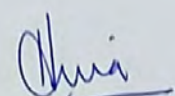
Maturation stages in amelogenesis

Teaching learning methods/media:

Team teaching

ICT based lecture


Staff Incharge


H.O.D.
Dept. of Oral Pathology
& Microbiology
APRIL - KALABURAGI

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA - INDIA.

Phone : 08472 - 227610, 220222 - Fax : 229687 | albadar_glb@yahoo.com



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

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

D. I. Hage
Staff Incharge

Chin

H.O.D.

**Dept. of Oral Pathology
& Microbiology**

ARDCH, KALABURAGI

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA - INDIA.

Phone : 08472 - 227610, 220222 - Fax : 229687 | albadar_glb@yahoo.com



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

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

D. I. Hojer
Staff Incharge

Chirya
H.O.D
H.O.D.
Dept. of Oral Pathology
& Microbiology
ARDCH, KALABURAGI



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

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

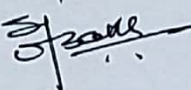
Tooth carving

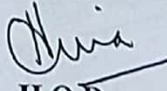
- Maxillary central incisor
- Mandibular central incisor
- Maxillary lateral incisor
- Mandibular lateral incisor
- Maxillary canine
- Mandibular canine
- Maxillary 1st premolar
- Mandibular 1st premolar
- Maxillary 2nd premolar
- Mandibular 2nd premolar
- Maxillary 1st molar
- Mandibular 1st molar
- Maxillary 2nd molar
- Mandibular 2nd molar

Demonstration of preparation of ground section

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


Staff Incharge


H.O.D.
Al-Badar Rural Dental College
& Hospital, KALABURAGI


H.O.D.
Dept. of Oral Pathology
& Microbiology
ARDCH, KALABURAGI

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA - INDIA.

Phone : 08472 - 227610, 220222 - Fax : 229687 | albadar_glb@yahoo.com



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

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:

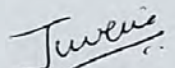
Interpret: Identify the tooth

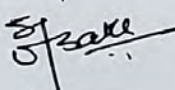
Lesson outline:

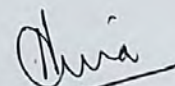
specimens

- Deciduous teeth
- Maxillary central incisor
- Mandibular central incisor
- Maxillary lateral incisor
- Mandibular lateral incisor
- Maxillary canine
- Mandibular canine
- Maxillary 1st premolar
- Mandibular 1st premolar
- Maxillary 2nd premolar
- Mandibular 2nd premolar
- Maxillary 1st molar
- Mandibular 1st molar
- Maxillary 2nd molar
- Mandibular 2nd molar

Teaching learning method/ media: Identification of tooth specimens


Staff Incharge


PRINCIPAL
Al-Badar Rural Dental College
& Hospital, KALABURAGI


H.O.D.
H.O.D.
Dept. of Oral Pathology
& Microbiology
ARDCH, KALABURAGI



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

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

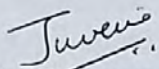
- Primary dentition
- Permanent dentition
- Mixed dentition

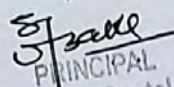
Tooth models

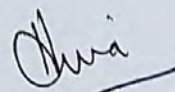
- Permanent teeth of both arch

Cross section and transverse section of maxilla and mandible with teeth

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


Staff Incharge


PRINCIPAL
Al-Badar Rural Dental College
& Hospital, KALABURAGI


H.O.D.
H.O.D.
Dept. of Oral Pathology
& Microbiology
ARDCH, KALABURAGI



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

J. J. J.
Staff Incharge

S. S.
PRINCIPAL
Al-Badar Rural Dental College
& Hospital, KALABURAGI

M. M.
H.O.D.
Dept. of Oral Pathology
& Microbiology
ARDCH, KALABURAGI

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA - INDIA.

Phone : 08472 - 227610, 220222 - Fax : 229687 | albadar_glb@yahoo.com



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to K. J. Somaiya University of Health Sciences Bangalore &
Recognized by Dental Council of India, New Delhi

LESSON PLAN

Class: 4th 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
Dept. of Orthodontics
Al-Badar Dental College &
Hospital, Gulbarga.



Al-Badar Educational & Charitable Trusts
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to K. J. Somaiya University of Health Sciences, Bangalore &
Recognized by Dental Council of India, New Delhi

LESSON PLAN

Class: 4th 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

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


Staff Incharge


H.O.D
HOD/INCHARGE
Dept. of Orthodontics
Al-Badar Dental College &
Hospital, Gulbarga.



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Kavya Gandhi University of Health Sciences, Bangalore &
Recognized by Dental Council of India (New Delhi)

LESSON PLAN

Class: 4th 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

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


Staff Incharge


H.O.D
HOD/INCHARGE
Dept. of Orthodontics
Al-Badar Dental College &
Hospital, Gulbarga.



Al-Badar Educational & Charitable Trusts
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to K. J. Somaiya University of Health Sciences, Bangalore &
Recognized by Dental Council of India (New Delhi)

LESSON PLAN

Class: 4th 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

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


Staff Incharge


H.O.D
HOD/INCHARGE
Dept. of Orthodontics
Al-Badar Dental College &
Hospital, Gulbarga.



Al-Badar Educational & Charitable Trust's
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India, New Delhi

LESSON PLAN

Class: 4th 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

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


Staff Incharge


HOD/INCHARGE
Dept. of Orthodontics
Al-Badar Dental College &
Hospital, Gulbarga.



Al-Badar Educational & Charitable Trusts
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Kavya Gandhi University of Health Sciences, Bangalore &
Recognized by Dental Council of India New Delhi

ALBADAR RURAL DENTAL COLLEGE AND HOSPITAL

DEPARTMENT OF PERIODONTOLOGY

4th 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 - 10th Edition
- Fundamentals of instrumentation

Prof & HOD



Al-Badar Educational & Charitable Trusts
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Sri Siddaganga University, Puttur, Karnataka, Bangalore &
Recognized by Dental Council of India, New Delhi

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 - 10th Edition
- Fundamentals of periodontal instrumentation and advanced root instrumentation - Jill S Nield Gehrig – 7th edition

Prof &HOD

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA - INDIA.

Phone : 08472 - 227610, 220222 - Fax : 229687 | albadar_glb@yahoo.com



Al-Badar Educational & Charitable Trusts
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Sree Siddaganga University of Health Sciences, Bangalore &
Recognized by Dental Council of India (New Delhi)

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 - 10th Edition

Prof & HOD

Near PDA Engg. College, Naganhalli Road, KALABURAGI - 585 102 - KARNATAKA - INDIA.

Phone : 08472 - 227610, 220222 - Fax : 229587 | albadar_glb@yahoo.com



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 factors
 - Local factors
 - Prosthetic & restorative factors
 - Relationship between diagnosis & prognosis
 - Prognosis for patients with gingival diseases
 - Prognosis for patients with periodontitis
- ✓ Reevaluation of prognosis after phase i therapy



Al-Badar Educational & Charitable Trusts
AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Attached to Kanyasulk University of Health Sciences, Bangalore &
Recognized by Dental Council of India, New Delhi

✓ 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 - 10th Edition

Prof & HOD