### I ST YEAR

<table>
<thead>
<tr>
<th>SL NO</th>
<th>SUBJECT</th>
<th>THEORY</th>
<th>PRACTICALS</th>
<th>TOTAL</th>
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<tr>
<td></td>
<td><strong>PART-A</strong></td>
<td>Hours</td>
<td>Marks</td>
<td>Hours</td>
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<tr>
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<td>Communication skill in English</td>
<td>245</td>
<td>75</td>
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<td>2</td>
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<td>50</td>
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<td></td>
<td>Vocational subjects</td>
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<td><strong>PART-B</strong></td>
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<td><strong>TOTAL</strong></td>
<td>825</td>
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### II nd YEAR

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<td>Hours</td>
<td>Marks</td>
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<tr>
<td>1</td>
<td>Communication skill in English</td>
<td>245</td>
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<td>65</td>
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<td>(Computer applications)</td>
<td>150</td>
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<td>Vocational subjects</td>
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<td><strong>PART-B</strong></td>
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<td>100 + 25</td>
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<td>100 + 25</td>
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### I YEAR: PAPER-I SYLLABUSE DIPLOMA IN DENTISTRY

**APPLIED ORAL ANATOMY (THEORY)**

(Hours: 145 Marks: 50+25=75)

**Introduction:**
- Dental Formulae
- Chronology
- Parts of tooth

**ELEMENTARY ANATOMY OF STRUCTURE OF DENTURE BEARING AREA**
- ANATOMICAL LANDMARKS
- HUMANDENTITITION AND OCCLUSSION
- FUNCTIONS OF TEETH
- MORPHOLOGY OF CROWNS OF TEETH
- Upper central incisor to 2nd molar
- Lower central incisor to 2nd molar
- MUSCLES OF MASTICATION
MUSCLES OF FACIAL EXPRESSION
NEEVE SUPPLY OF MACIUARY AND AMNDIBULOR TEETH
BLOOD SUPPLY OF MAXIUARY AND MANDIBULAR TEETH
TEMPO RANDBULOW JOINT
JAWBONES
Maxilla
Mandible

APPLIED ORAL ANATOMY (PRACTICALS)
(Hours: 275, Marks: 50)

Preparation plaster blocks
Tooth carrying on plaster blocks
Upper and lower central inciker to 2\textsuperscript{nd} molar
Teeth carving on wax blocks

1st YEAR: PAPPER-II
DENTAL MECHANICS (PRIMARY)-THEORY

Hours – 145
Marks: - 50+25=75

Introduction
Dental formulas
Chronology
Anatomical land marks
IMPRESSON TRAYS TYPES
PRIMARY IMPRESSION CRE AND CASTING THE IMPRESSION WITH VARIOUS MATERIALS FINAL IMPRESSIONS, BEEDING AND BOXING OF IMPRESSION CONSTRUCTION OF SPECIAL TRAYS WITH
Shellac Base plate
Self cure acrylic
With spacers
Without spacers
CAST PREPERATION TRIMMING INCLUDING ORTHODONTIC COSTS
PREPERATION OF OCCUSSAL RIMS
ARTICULATORS-Parts classification, adjustments mounting of cast
SELECTION OF TEETH
PRINCIPALS OF TEETH SEETING
TEETHSETTING AND WAXING-FINISHING
PARTICULATION, OCCLUSAL PLANE, CURVE OF SPEE, COMPENSATING CURVE, BALANCING BIET, PROBTUSIVE BALANCE, OVER JET, OVER BIET, KEY OF OCCLUSSION
FLASKING, DEWAXING, PACKING, CURING, DEFLASKING, FINISHING AND POLISHING OF DENTURES
Denture Relining, Rebasing
Denture Repairs
Kennedy’s classification of partial dentures
Principles of partial denture design
Surveyor-Surveying path of insertion and path of removal
Designing of Clasps, parts of clasp, Principles of Wire bending,
Occusal rests, lingual bars and various component parts of partial denture
General Principles of denture retention

1 YEAR: PARER-III
DENTAL MATERIALS (PRIMARY) (THEORY)

1. The Science of Dental materials : Introduction
2. Gypsum and Gypsum Products
3. Impression materials RIGID
4. Elastic impression materials
5. Irreversible Hydro Colloid : ALGINATE
6. Electrometric impression materials
7. Denture Base Materials
8. Dental cements
9. Direct filling Gold  
10. Dental casting alloys  
11. Dental waxes  
12. Dental casting investment materials  
13. Modal cast and die materials  
14. Dental ceramics  
15. Abrasive and polishing agents

1st YEAR  
DENTAL MECHANICS (PRACTICALS) PAPER-II  
(No. of Hours: 275, Marks: 50)

Preparation of dentulus and edentulous casts  
Preparation special trays  
Shellac base plate  
Self cure acrylic  
With spacer  
Without spacer  

PREPARATION OF COMPLETE DENTURE  
Base plate adoption  
Preparation of occlusal rims  
Mountion of the casts  
Teeth setting  
Max carving finishing  
Flaking  
Dewaxing  
Packing  
Curing  
Deflasking  
Timing sand papering, polishing

PREPARATION OF PARTIAL DENTURE  
Preparation dentulus costs for Kennedy’s Classification  
Base plate adaptation  
Occlusal rims preparation  
Teeth setting  
Wax carving finishing  
Flasking  
Dewaxing  
Packing  
Trimming, sand Papering, Polishing  
Denture Relining, Rebasimg  
Denture Repair

ON THE JOB TRAINING (1st YEAR)  
SIES  
1. Dental labs (Private)  
2. corporate hospitals

SYLLABUS  
I FARRICATION OF COMPLETE DENTURE  
a. Case Preparation  
b. Base plate Adaptation  
c. Occlusal Rims Preparation  
d. Mounting  
e. Teeth Setting  
f. Waxing & Carving  
g. Flasking  
h. Dewaxing  
i. Curing
II. FABRICATION OF REMOVABLE PARTIAL DENTURES

1. Self cure acrylic
2. Heat cove acrylic

EVALUATION

The marks may be allotted to
1. Observation of work by supervisor
2. Viva or Interview
3. Report

II nd YEAR : PAPER-I
DENTAL MECHANICS & ORTHODONTIA (FINAL) THEORY
(Hours: 165, Marks: 125)

INTRODUCTION:

Crown and Bridge
Importance, Advantages

CASTING

Centrifuge casting machine
Pressure casting machine
Induction casting machine
Casting furnaces and procedures involved

PRINCIPLES OF CASTING

CASTING TECHNIQUES OF BRIDGES, FULL CROWNS, OCCLUSAL RESTS PARTIAL DENTURE (SKELETON)
WAXPATTERN FARBICATION
INVESTING PROCEDURES - Spurring the wax pattern and investing
COSTING PROCEDURES - Burnout procedures
METAL TRIMIMING, FINISHING AND POLISHING
INLAYS - Classification
TYPES OF ABUTMENTS
VARIOUS PNTIC DESIGNS
COBALT CHAROMIUM DENTURE BASES
WROUGHT ALLOY DENTURE BASES
CAST GOLD RESTORATION
CERAMIC TYPES OF CERAMIC MATERIALS
CERAMIC HI-CEREMIC, METAL FUSING CERAMIC
MAXILLA FACIAL PROSHONISIS - Obturators, Splints mouth gards
CAST DUPLICAION VARIOUS METHODS
IMMIDATE DENTURES CONSTRUCTION

DENTAL MECHANICS & ORTHODONTIA (FINAL) THEORY

I. INTRODUCTION

Definition
Nature of Malocclusion
The Need for orthodontic treatment

II. MALOCCLUSION

Malposition of Individual teeth
Classification of malocclusion

III. AETIOLOGY

IV. APPLIANCE THERAPY IN GENERAL

Histological aspects of tooth movements
Mechanical appliances
Functional appliance
The component parts of mechanical appliance
Designing on appliance
Material used in the construction of appliance
Designing on appliance
Material used in the construction of appliances
Soldering
V. REMOVABLE AND FUNCTIONAL APPLIANCES
Removable appliances in which screws are incorporated
Removable appliances with auxiliary springs
The construction of removable appliances with screws & springs

FIXED APPLIANCES
Molla Bands
Incisor Bands
Attachments
Labial lingual appliances
Spring or flexible bows
Local fixed appliances

VII. RETENTION AFTER TREATMENT

SECOND YEAR: PAPER-I
DENTAL MECHANICS (FINAL): PRACTICALS
(Hours: 615, Marks: 50)

Preparation of wax pattern
Spruing of wax pattern
Investing wax pattern
Burnout wax pattern
Casting
Metal trimmings, Finishing and polishing
Preparation of cast’s partial denture
Preparation of maxilla facial prosthesis
Ceramic-ceramic – Hyceremaic, Metal fused ceramic

ORTHODONTICS (PRACTICALS)
Study Model Preparation
Long and Short labial bow
Lingual bow
Canine retractor
Adams Clasp
Bite Planes
Habit breaking appliance
Space maintainers
Z-Spring
T-Spring
Finger spring
Oral screen
Activator
Welding and soldering

Paper: II
DENTAL METALLURGY (THEORY)
(Hours: 325, Marks: 100)

COURSE CONTENT:-
Metallurgical Terms
General Properties of Metals
Study of:-

1. Metals used in dentistry particularly, Gold, Silver, Copper, Zinc, Tin, Lead and Aluminum
2. Alloys used in dentistry casting Gold, Wrought, Gold, Silver alloys, Stainless steel, Cu…………………..

Heat treatment - annealing tempering
Solders, fluxes, anti-fluxes
Tarnish and corrosion
Electric deposition
Dies-counter dies-electroforming
Stainless steel
Soldering and welding
Chrome cobalt casting
Metal polishing materials