SCHEME OF STUDIES AND EXAMINATION
DIPLOM IN DENTISTRY

I ST YEAR

SL NO	SUBJECT	THEORY		PRACTICALS		TOTAL	
	PART-A	Hours	Marks	Hours	Marks	Hours	Marks
	1.Communication skill in English	245	75	65	25	320	100
	2. General Foundation Course(Computer applications)	150	50	130	50	280	100
	Vocational subjects PART-B						
	1. Applied Oral Anatomy	145	75	275	50	420	125
	2.Dental Mechanics	145	75	275	50	420	125
	3. dental materials	140	50	----	---	140	50
	PART-C						
	On Job training (project work)			245	50	245	50
	TOTAL	825	325	990	225	1825	550

II nd YEAR

SL no	SUBJECT	THEORY		PRACTICALS		TOTAL	
	PART-A	Hours	Marks	Hours	Marks	Hours	Marks
	1.Communication skill in English	245	75	65	25	245	100
	2. (Computer applications)	150	50	130	50	245	100
	Vocation subjects PART-B						
	1. Dental Mechanics and Orthodentic	165	100+25	495	75	655	200
	2.Dental Metaelurgey	325	100+25	---	---	325	100
	PART-C						
	On Job training (project work)	---	----	245	50	245	50
	TOTAL	885	375	935	200	1715	550

I YEAR: PAPER-I SYLLABUSE DIPLOMA IN DENTISTY
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 OCLUSSION
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
TEMPRO MANDIBULOW 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 2nd molar
Teeth carving on wax blocks

Ist YEAR: PAPPER-II
DENTAL MECHANICS (PRIMARY)-THEORY

Hours – 145
Marks: - 50+25=75

Introduction
Dental formulas
Chronology
Anatomical land marks
IMPRESSION TRAYS TYPES
PRIMARY IMPRESSION CRE AND CASTING THE IMPRESSION WITH VARIOUS MATERIALS FINAL IMPREESSIONS, 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, PROTBUSIVE 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

I 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

Ist 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

PEPARATION OF COMPLETEDENURE
- 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

PREPERATION 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, Rebasing
- Denture Repair

ON THE JOB TRAINING (Ist YEAR)

SIES
1. Dental labs (Private)
2. corporate hospitals

SYLLABUS

I FARRICATION OF COMPLETEDENTURE
a. Case Preparation
b. Base plate Adaptation
c. Occlussal Rims Preparation
d. Mounting
e. Teeth Setting
f. Waxing & Carving
g. Flasking
h. Dewaxing
i. Curing

j. De Flasking
k. Trimming sand Papering Polishing

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 MACHANICS & ORTHODONTIA (FINAL) THEORY

I. INTRODUCTION

Definition
Nature of Malocclusion
The Need for orthodontic treatment

II. JALOCCLUSION

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

Welding

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

IInd 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, antifluxes
Tarnish and corrosion
Electric deposition
Dies-counter dies-electroforming
Stainless steel
Soldering and welding
Chrome cobalt casting
Metal polishing materials