

**D A PANDU MEMORIAL
D A P M R V DENTAL COLLEGE AND HOSPITAL
BANGALORE**



**DEPARTMENT OF
PROSTHODONTIA AND CROWN & BRIDGE**

MDS PROFORMA – 2020

for HOD - D. M. K. / 18/1/21
**DEPARTMENT OF PROSTHODONTICS
D.A.P.M.R.V. Dental College & Hospital
CA 37, 24th Main, J.P. Nagar 1st Phase,
BANGALORE - 560 078.**

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MONITORING PROGRESS OF STUDIES

Work diary / Log Book: Every candidate shall maintain a work diary and record of his/ her participation in the training programme conducted by the department such as journal reviews, seminars, etc. Please see Chapter IV for model checklists and logbook.

Special mention may be made of the presentations by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate. The work diary shall be scrutinized and certified by the Head of the Department and Head of the Institution, and presented in the university practical/clinical examination.

PERIODIC TESTS

In case of degree courses of three years duration, the concerned departments may conduct three tests, two of them be annual tests, one at the end of first year and the other in the second year. The third test may be held three months before the final examination. The tests may include written papers, practical / clinical and viva voce. Records and marks obtained in such tests will be maintained by the Head of the Department and sent to the University, when called for.

RECORDS

Records and marks obtained in tests will be maintained by the Head of the Department and will be made available to the University when called for.

LIST OF INSTRUMENTS TO BE PROCURED

SL No.	INSTRUMENTS	QTY
1	Mackintosh sheet 1 metre	2
2	Rubber bowl small/ big	1 each
3	Plaster spatula straight/ curved	1 each
4	Plaster knife	1
5	Lecron's carver	1
6	Wax spatula	1
7	Glass slab	2

WORK SCHEDULE FOR M.D.S.STUDENTS

- Submission of Pre Clinical CD work at the end of the first three months.
- Submission of preclinical FPD work at the end of 05 months.
- Submission of preclinical CPD work at the end of 06 months.
- Clinical training program in CD begins at the end of the first 06 months.
- Clinical training program in FPD begins in the 2nd year.
- Submission of the preclinical work in maxillofacial prostheses at the end of 1st year.
- 01 Publication in a peer review journal by the end of 2nd year.
- Submission of Library dissertation at the end of first 18 months.
- Submission of the synopsis of the thesis to RGUHS before the end of the first 06 months.
- Submission of Main dissertation at the end of 2 years.

PRE-CLINICAL CURRICULUM

COMPLETE DENTURE

- Preparation of Edentulous study models & marking of anatomical landmarks
- Arrangement of teeth in Class I, Class II & Class III occlusion on a Mean Value Articulator – 3 Sets each.
- Processing of I Set of Complete Dentures in Class I, Class II, Class III occlusion with Heat Cure Acrylic resin.
- Rebasing of Upper Complete Denture.
- Relining of Lower Complete Denture.
- Repair of Upper & Lower Complete Denture.

- Preparation of Cap Splint on Dentulous model with Acrylic Resin.
- Preparation of Gunning Splint for Edentulous model.
- Arrangement of teeth in Balanced Occlusion on a Semi-Adjustable articulator.

REMOVABLE PARTIAL DENTURE

- Survey & design for Class I, II, III & IV Kennedy's Classification of partially edentulous models.
- Block out, Relief & Duplication of Models.
- Preparation of Wax Patterns.
- Fabrication of Metal Framework for any one of the above patterns.

FIXED PARTIAL DENTURE

- Preparation of plaster tooth models to receive various types of retainers.
- Preparation of typhodont teeth (articulated model) to receive various types of Retainers.
- Tooth preparation to receive laminates.
- Preparation of cast with die stone with separable dies using Pindex system.
- Preparation of wax patterns.
- Fabrication of Retainers.
- Fabrication of anterior 3 Unit FPD.
- Fabrication of Cantilever FPD.

- Fabrication of posterior 3 Unit FPD.
- Fabrication of Metal ceramic crown.
- Fabrication of Resin bonded prosthesis.
- Fabrication of Laminates
- Preparation of post space on extracted natural teeth

MAXILOFACIAL PROSTHESIS

- Fabrication of any one type of maxillofacial prosthesis

DISPLAY OF PRECLINICAL WORK.

By the end of preclinical curriculum, the students are required to display all their preclinical work and other assignments to the Head of the Department

CLINICAL CURRICULUM.

Clinical cases should be started only after case presentation with all the relevant records to the concerned staff and approval of the treatment plan by the Head of the Department

I YEAR M.D.S.

- Fabrication of Complete Dentures on a Mean Value Articulator – 10 nos.

II YEAR M.D.S.

- Fabrication of Complete Dentures on a Mean Value Articulator – 30 nos.
- Fabrication of Complete Dentures in Balanced Occlusion – 05 nos.
- Fabrication of FPD – 15 nos.
- Fabrication of Maxillofacial prosthesis – 05 nos.

D.A.P.M.R.V. DENTAL COLLEGE & HOSPITAL

DEPARTMENT OF PROSTHODONTICS

PRE-CLINICAL RECORD

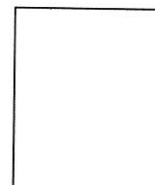
NAME :
YEAR :
REG. NO :
EXAMINATION CENTRE :

Dr. N. KALAVATHY, M.D.S.
Professor & Head
Department of Prosthetics
D.A.P.M.R.V. Dental College & Hospital
CA 37, 24th Cross, 1st Phase,
BANGALORE

DEPARTMENT OF PROSTHODONTICS
R.V. DENTAL COLLEGE & HOSPITAL

J. P. NAGAR, BANGALORE - 560 078.

Certificate



This is to Certify that

Mr./Ms. _____

Reg. No. _____

has satisfactorily completed the clinical work in

Department of Prosthodontics

Prescribed by the

Rajiv Gandhi University of Health Sciences for the
IV B.D.S Course during the year.....

Internal Examiner

Teacher Incharge

External Examiner

Professor and Head
Department of Prosthodontics
R.V. Dental College
Bangalore

ARMAMENTARIUM FOR PRECLINICAL EXERCISES

1. Mackintosh sheet
2. Rubber bowls
 - a) Flexible rubber bowl
 - b) Stiff rubber bowl
3. Straight Plaster spatula
4. Curved spatula (for mixing alginate)
5. Plastic spatula
6. Wax spatula
7. Wax knife
8. Lacron's carver
9. Stanley's knife
10. Plaster knife
11. Mean value articulator
12. Glass slab
13. Cement spatula / Broad bladed stainless steel spatula (for mixing ZnOE paste)
14. Half round file
15. Dental flasks with Clamps
16. Stainless Steel scale - 6 inch
17. Scissors - straight
18. Porcelain cup with lid
19. Soft Tooth brush
20. Impression trays : Stock Metal Trays (Maxillary & Mandibular)
 - . Dentulous - perforated Nos. - 1 to 4
 - . Edentulous - nonperforated Nos. - 1 to 4
21. Camel's hair brush

EXERCISE 3 - C

Sl. No.	EXERCISE	GRADE	SIGNATURE
1.	Marking of anatomical landmarks on Maxillary and Mandibular cast		
2.	Marking of anatomical landmarks on Mandibular cast		

Sl. No.	EXERCISE	GRADE	SIGNATURE
1.	Impression of Edentulous Maxillary model		
2.	Impression of Edentulous Mandibular model		
3.	Impression of Edentulous Maxillary model		
4.	Impression of Edentulous Mandibular model		
5.	Thumb Impression with impression compound		
6.	Lining of thumb impression with ZOE		

EXERCISE NO. 5

PREPARATION OF EDENTULOUS CASTS

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY b. MANDIBULAR		
2.	a. MAXILLARY b. MANDIBULAR		

PREPARATION OF CUSTOM TRAY WITHOUT SPACER
SHELLAC BASEPLATE

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY b. MANDIBULAR		

**PREPARATION OF CUSTOM TRAY WITH PARTIAL SPACER IN
CHEMICAL CURED ACRYLIC RESIN**

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY b. MANDIBULAR		

**PREPARATION OF CUSTOM TRAY WITH FULL
SPACER IN CHEMICAL CURED ACRYLIC RESIN**

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY b. MANDIBULAR		

**PREPARATION OF CUSTOM TRAY WITH PARTIAL SPACER IN
CHEMICAL CURED ACRYLIC RESIN**

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY b. MANDIBULAR		

**PREPARATION OF CUSTOM TRAY WITH FULL
SPACER IN CHEMICAL CURED ACRYLIC RESIN**

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY b. MANDIBULAR		

PREPARATION OF FINAL CAST :-

SL NO.	WORK DONE	GRADE	SIGNATURE
1.	PREPARATION OF FINAL CAST BY BEADING & BOXING METHOD MAXILLARY		
2.	MANDIBULAR		
1.	PREPARATION OF FINAL CAST BY TWO STAGE PRORING METHOD MAXILLARY		
2.	MANDIBULAR		

PREPARATION OF RECORD BASE

SL. NO.	WORK	GRADE	SIGNATURE
1.	a. MAXILLARY by using Shellac base plate b. MANDIBULAR by using Shellac base plate		
2.	a. MAXILLARY by using self cure acrylic b. MANDIBULAR by using self cure acrylic		
3.	a. MAXILLARY by using self cure acrylic b. MANDIBULAR by using self cure acrylic		
4.	a. MAXILLARY by using self cure acrylic b. MANDIBULAR by using self cure acrylic		

FABRICATION OF WAX OCCLUSAL RIMS :

SL.NO	WORK DONE	GRADE	SIGNATURE
1.	MAXILLARY OCCUSAL RIM MANDIBULAR OCCUSAL RIM		
2.	MAXILLARY OCCUSAL RIM MANDIBULAR OCCUSAL RIM		
3.	MAXILLARY OCCUSAL RIM MANDIBULAR OCCUSAL RIM		

**ARRANGEMENT OF TEETH IN CLASS I MOLAR
RELATION**

Set No -01

SL. NO.	WORK	GRADE	SIGNATURE
1.	ARTICULATION		
2.	TEETH ARRANGEMENT a. ANTERIORS MAXILLARY MANDIBULAR b. POSTERIORs MAXILLARY MANDIBULAR		
3.	FINISHING AND POLISHING		
4.	Demounting		

**ARRANGEMENT OF TEETH IN CLASS II MOLAR
RELATION**

Class II

SL. NO.	WORK	GRADE	SIGNATURE
1.	ARTICULATION		
2.	<p style="text-align: center;">TEETH ARRANGEMENT</p> <p style="text-align: center;">a. ANTERIORS</p> <p style="text-align: center;">MAXILLARY</p> <p style="text-align: center;">MANDIBULAR</p> <p style="text-align: center;">b. POSTERIORS</p> <p style="text-align: center;">MAXILLARY</p> <p style="text-align: center;">MANDIBULAR</p>		
3.	FINISHING AND POLISHING		
4.	Demounting		

**ARRANGEMENT OF TEETH IN CLASS III MOLAR
RELATION**

Class III

SL. NO.	WORK	GRADE	SIGNATURE
1.	ARTICULATION		
2.	<p style="text-align: center;">TEETH ARRANGEMENT</p> <p style="text-align: center;">a. ANTERIORS</p> <p style="text-align: center;">MAXILLARY</p> <p style="text-align: center;">MANDIBULAR</p> <p style="text-align: center;">b. POSTERIORS</p> <p style="text-align: center;">MAXILLARY</p> <p style="text-align: center;">MANDIBULAR</p>		
3.	FINISHING AND POLISHING		
4.	Demounting		

PROCESSING OF COMPLETE DENTURE

SL. NO.	WORK	GRADE	SIGNATURE
1.	FLASKING IN TWO POUR TECHNIQUE		
2.	DEWAXING		
3.	PACKING AND CURING		
4.	TRIMMING AND POLISHING		
5.	REMOUNTING		
6.	OCCLUSAL CORRECTION		
7.	FINISHING AND POLISHING		

DEPARTMENT OF CONSERVATIVE DENTISTRY
AND ENDODONTICS

D.A.P.M.R.V. DENTAL COLLEGE & HOSPITAL

J. P. NAGAR, BANGALORE - 560 078.

Certificate

This is to Certify that

Mr. / Ms. TANMAY JAYARAMA RAO

Reg. No. 1701853

has fulfilled the pre clinical requirements in the

"Preclinical Operative Dentistry"

within the time frame. His/her work is graded

as good/bad/satisfactory.

Date: 04/06/2019



Place: Bangalore

Vanamala N.
04/06/2019

Staff Member Incharge

Department of Conservative Dentistry
& Endodontics
D.A.P.M.R.V. DENTAL COLLEGE & HOSPITAL
CA.37, 24th MILE, J.P. NAGAR, BANGALORE
BANGALORE - 560 078

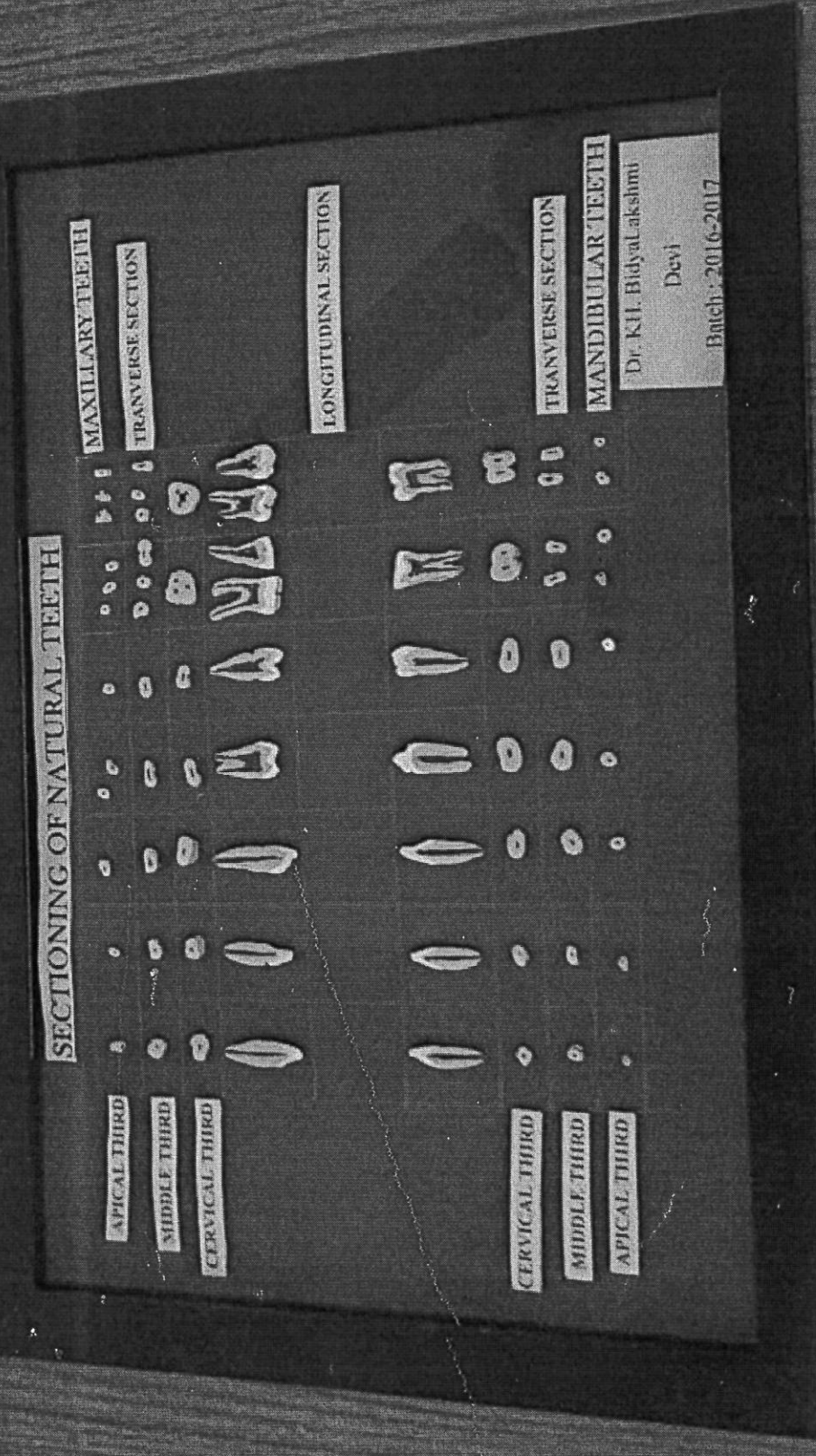
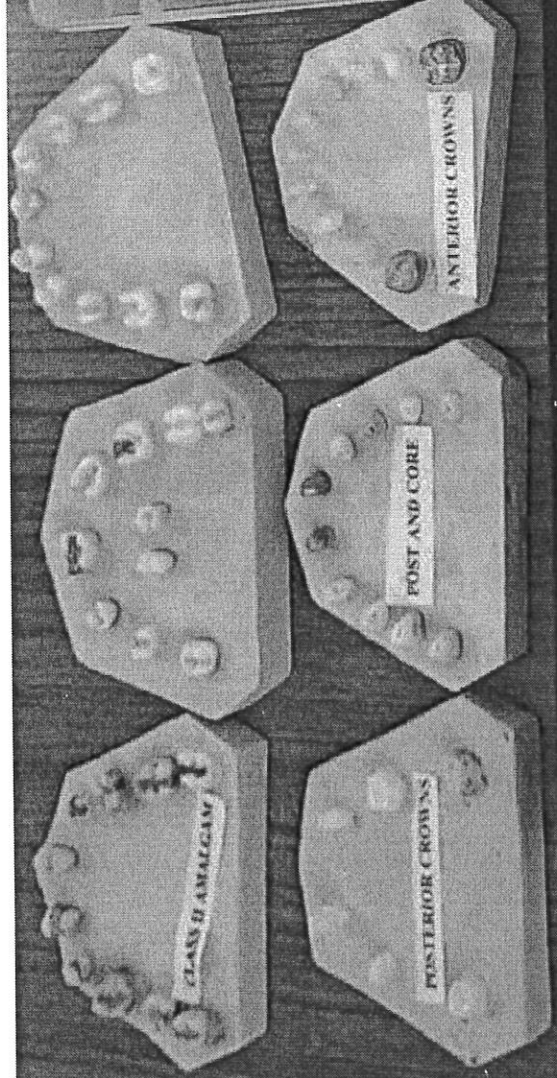
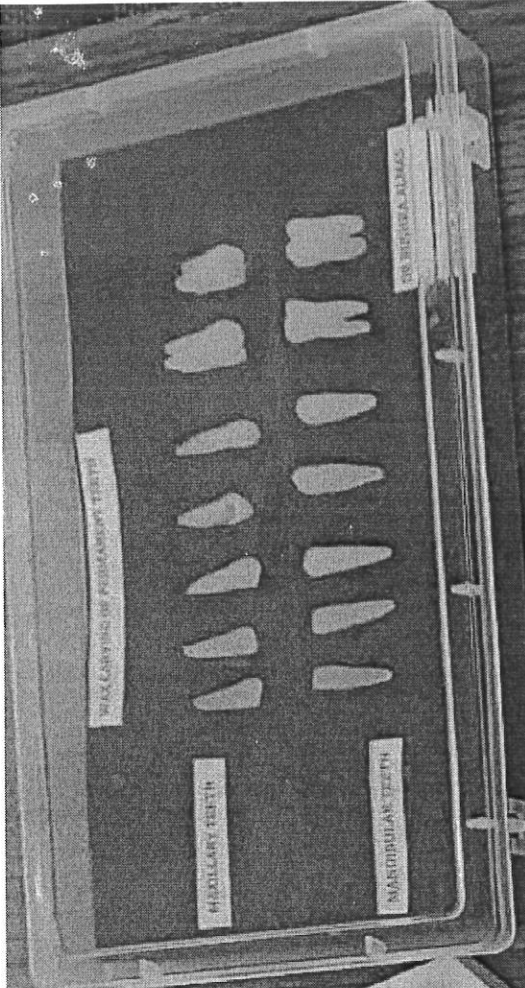


Professor and Head

Department of Conservative Dentistry And Endodontics
D.A.P.M.R.V. Dental College, Bangalore

DATE	S/NO	Work Done	Quota Completed	Signature
04/06/19	1.	Plaster Model	15	
	2.	Class I	9	
	3.	Class II	14	
	4.	Class III	3	
	5.	Class IV	5	
	6.	Inlay wax Pattern	1	
	7.	Extracted teeth	3	
	8.	Access Opening	1	
28/11/19	9.	I Internal Assessment	1	
14/03/19	10.	II Internal Assessment	1	
16/05/19	11.	III Internal Assessment	1	

Quota of Completed
 42/6/19.
 work



PRE-CLINICAL EXERCISE

<u>SL NO</u>	<u>WORK DONE</u>	<u>SIGNATURE OF STAFF</u>		
<u>CAVITY PREPARATION IN PRIMARY TEETH</u>				
			GRADE	SIGNATURE
1	CLASS I	54	B	P. Ramon
		65	B ⁺	P. Ramon
		74	B ⁻	P. Ramon
		85	B ⁻	P. Ramon
2	CLASS II	55	B	P. Ramon
		64	B	P. Ramon
		75	B	P. Ramon
		84	B ⁺	P. Ramon
3	CLASS I BUCCAL EXTENSION	85	B ⁻	P. Ramon
4	CLASS I PALATAL EXTENSION	65	B ⁺	P. Ramon
<u>CAVITY PREPARATION IN PERMANENT TEETH</u>				
			GRADE	SIGNATURE
1	CLASS I	16	B	P. Ramon
		46 48	B	P. Ramon
2	CLASS II	26 27	B	P. Ramon
		36	B	P. Ramon
3	CLASS I BUCCAL EXTENSION	46 48	B	P. Ramon
4	CLASS I PALATAL EXTENSION	26	A	P. Ramon

Practical exercise submitted to the Department on 15.05.1
 P. Ramon

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DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY

109.	Plastic Folders For Maintaining Patient Records		25
PHOTOGRAPHY ITEMS			
110.	Digital SLR Camera with close up lenses (1+2+3 & Macro)		1
111.	Intraoral Mirrors		1 Set

M.D.S. I YEAR – LIST OF PRECLINICAL EXERCISES

Instructions

1. All the exercises should be completed within the first six months of the PG course.
2. Descriptive notes for each of the preclinical exercises must be written before starting the same.
3. The exercises should be shown to the concerned guides and signatures taken in the submission form given.
4. The display should be neatly planned and submitted as soon as completed.

- I. Wax carving
 - a. Set of deciduous teeth
 - b. Set of permanent teeth
- II. Basic wire bending exercises – One of each

SL NO	EXERCISE	WIRE GAUGE	DIMENSIONS
1.	Straight wire	0.9mm	6"
2.	Square	0.9 mm	1" X 1"
3.	Rectangle	0.9 mm	1" X 2"
4.	Triangle	0.9 mm	1" X 1" X 1"
5.	Circle	0.9 mm	1" radius
6.	C clasp on 16, 36, 55 & 85	0.9 mm	
7.	Adam's clasp for molars, 16, 46, 55, 75	0.7 mm	
8.	Modified Adam's clasp with distal extension	0.7mm	
9.	Modified Adam's clasp with eyelet	0.7mm	
10.	Modified Adam's clasp with single arrow head	0.7mm	
11.	Modified Adam's clasp with soldered buccal tube	0.7mm	
12.	Single cantilever spring for 11	0.6 mm	
13.	Double cantilever spring for 11	0.6 mm	
14.	Finger spring for mesial and distal movement of 11, 21	0.6 mm	
15.	Coffin spring	0.9mm	
16.	Canine retractor – buccal type	0.6 mm	
17.	Canine retractor – U loop type	0.6 mm	
18.	Canine retractor – helical type	0.6mm	
19.	Palatal canine retractor	0.6mm	
20.	Short labial bow	0.9mm	
21.	Long labial bow	0.9mm	
22.	Reverse labial bow	0.9mm	
23.	High labial bow with Apron spring	0.9 mm	
24.	Split labial bow	0.9mm	

Raveen X
for boy 24

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III. Fabrication of custom impression trays for primary dentition

IV. Fabrication of appliances

Removable

- a. Hawley's appliance
- b. Hawley's appliance with anterior bite plane
- c. Hawley's appliance with posterior bite plane
- d. Maxillary expansion appliance with expansion screw
- e. Maxillary expansion appliance with coffin spring
- f. Canine retractor appliance
- g. Removable type habit breaking appliance with tongue crib
- h. Oral screen with Hotz modification
- i. Oral screen with holes
- j. Lip bumper appliance
- k. Activator
- l. Bionator
- m. Maxillary appliance with guarded finger springs
- n. Maxillary anterior cross bite correction appliance with 'Z' spring and posterior bite plane
- o. Feeding plate for cleft palate cases
- p. Vacuum molded splint for bruxism

Fixed

- q. Fixed habit breaking appliance with tongue crib
- r. Fixed lip bumper
- s. W – arch
- t. Quad helix
- u. Catalan's appliance

V. Basic soldering exercises

- a. Lamp post of SS wire, pieces of different gauges soldered on either side of the heavy gauge main post.

VI. Basic spot welding exercises

Welding of molar bands on all primary and permanent molars

VII. Fabrication of space maintainers/Space regainers

Removable space maintainers

- a. Unilateral nonfunctional space maintainer
- b. Bilateral nonfunctional space maintainer
- c. Unilateral functional space maintainer
- d. Bilateral functional space maintainer
- e. Anterior esthetic space maintainer for 51, 52, 61, 62
- f. Complete denture for deciduous dentition

Removable Space regainers

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- g. Space regainer with helical spring
- h. Split type Space regainer with expansion screw
- i. Sling shot type space regainer
- j. Dumbbell type space regainer

Fixed space maintainers

- k. Individual Band and loop space maintainers for missing 54; 55; 74; 75
- l. Long band and loop space maintainer 64 & 65; 84&85
- m. Mayne type space maintainer
- n. Passive lingual arch
- o. Passive lingual arch with 'u' loops
- p. Passive lingual arch with canine stoppers
- q. Nance palatal arch
- r. Trans-palatal arch
- s. Distal shoe space appliance

Fixed space regainers

- t. Open coil type space regainer
- u. Gerber's space regainer
- v. Humphrey appliance for distalization of 16

VIII. Study model preparation

- a. Study model preparation of primary, mixed dentition and young permanent dentition patient casts
- b. Mixed dentition analyses: Moyers and Tanaka Johnson methods

IX. Exercises on extracted teeth

- a. Sectioning primary and permanent teeth at various levels and planes
- b. Drawing of section and shapes of pulp
- c. Endodontic access cavity preparations for all primary and permanent teeth
- d. Pediatric Endodontic procedures - Pulpotomy, Pulpectomy,
- e. Permanent Teeth Root canal treatment procedures on Maxillary and Mandibular teeth (Central incisors, lateral incisors, canines, premolars, and first permanent molars) using hand and rotary endodontic instruments. Apexification procedure on an anterior tooth.
- f. Restoration of fractured anterior teeth with composite.
- g. Placement of wire-composite splint for traumatized teeth.
- h. Preventive restorations – Pit and fissure sealants, conservative adhesive restorations (Preventive resin restorations).
- i. Preparation of permanent teeth for various types of crowns: i. cast metal crown ii. Porcelain fused metal crown iii) Laminates/veneers (anterior teeth)

X. Preparation of ideal cavity preparation on primary and permanent typhodont teeth.

XI. Preformed crown exercises

- a. Stainless steel crown placement on 54, 65, 74, 85, 16, 26
- b. Adjacent stainless crown placement on 64, 65; 84,85
- c. Modifications of stainless steel crowns – Undersized crown; Oversized crown;

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- d. Strip crown placement on primary anterior teeth.
- e. Polycarbonate crown placement on primary anterior teeth
- f. Polycarbonate crown placement on primary posterior teeth

XII. Radiographic exercises

- a. Taking and processing radiographs: i. periapical ii. Occlusal iii. Bitewing iv. OPG
- b. Tracing of soft tissue dental and skeletal land marks as observed on Cephalometric radiographs and drawing of various planes and angles.

Raveen
for HOD

Preclinical
PG

*POST GRADUATE COURSE
PROFORMA AND PRECLINICAL WORK DIARY*

*DEPARTMENT OF ORTHODONTICS
&
DENTOFACIAL ORTHOPAEDICS*

*DAPM R.V. DENTAL COLLEGE AND HOSPITAL
BANGALORE.*



Dept. of Orthodontics &
Dentofacial Orthopaedics
D.A.P.M.R.V. Dental College
J.P. Nagar, 1st Phase,
Bangalore - 560 078.

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Basic Pre-Clinical Exercise Work for the MDS Students:

1. Clasps:

- 1 $\frac{3}{4}$ Clasps 1
2. Triangular Clasps 1
3. Adam's clasp 2
4. Modification of Adam's – With Helix 2
5. Southend Clasp 1

2. Labial Bows:

- 1 Short labial bow (upper & lower) 1
- 2 Long labial bow (upper & lower) 1
3. Split high labial bow 1

3. Springs:

- 1 Double cantilever spring 1
- 2 Coffin spring 1
- 3 T spring 1

4. Appliances:

1. Hawley's retention appliance with anterior bite plane 1
2. Upper Hawley's appliance with posterior bite plane 1
3. Upper expansion appliance with expansion screw 1
4. Habit breaking appliance with tongue crib 1
5. Oral screen and double oral screen 1
6. Lip bumper 1
7. Splint for Bruxism 1
8. Catalans appliance 1
9. Activator 1
10. Bionator 1
11. Frankel-FR 1& 2 appliance 2
12. Twin block 1
13. Lingual arch 1
14. TPA 1
15. Quad helix 1
16. Utility arches 1
17. Pendulum appliance 1

18. Canine Retractor(Marcotte & PG Spring) 1

5. Soldering exercises:

1 Star/Comb/Christmas tree 1

6. Study model preparation:

7. Model analysis – Mixed and permanent Dentition:

8. Cephalometrics:

1 Lateral cephalogram to be traced in different colors and super imposed to see the accuracy of tracing

2 Vertical and Anterio-Posterior Cephalometric analysis

3 Soft tissue analysis – Holdaway and Burstone

4 Various superimposition methods

9. Basics of Clinical Photography including Digital Photography:

10. Typodont exercises:

Begg or P.E.A. method/Basic Edgewise:

1 Teeth setting in Class-II division I malocclusion with maxillary anterior Proclination and mandibular anterior crowding

2 Band pinching, welding brackets and buccal tubes to the bands

3 Different Stages dependent on the applied technique

LIGHT WIRE BENDING EXERCISES FOR THE BEGG TECHNIQUE

1 Wire bending technique on 0.016' wire circle "Z" Omega

2 Bonwill-Hawley diagram

3 Making a standard arch wire

4 Inter maxillary hooks- Boot leg and Inter Maxillary type

5 Upper and Lower arch wire

6 Bending a double back arch wire

7 Bayonet bends (vertical and horizontal offsets)

8 Stage-III arch wire

9 Torquing auxiliary (upper)

10 Reverse Torquing (lower)

11 Up righting spring and Rotation springs

CLINICAL CURRICULUM:

Once the basic pre-clinical work is completed the students can take up clinical cases and clinical training is for the two and half years.

Each postgraduate student should start with a minimum of 50 fixed orthodontics cases and 20 removable including myofunctional

cases of his/her own. Additionally he/she should handle a minimum of 25 transferred cases.

The type of cases can be as follows:

- Removable active appliances
- Class-I malocclusion with Crowding
- Class-I malocclusion with bi-maxillary protrusion
- Class-II division – 1
- Class-II division – 2
- Class-III (Orthopedic, Surgical, Orthodontic cases)
- Inter disciplinary cases
- Removable functional appliance cases like activator, Bionator, functional regulator, twin block and new developments
- Fixed functional appliances – Herbst appliance, jasper jumper etc
- Dento-facial orthopedic appliances like head gears, rapid maxillary expansion, NiTi expander etc.,
- Appliance for arch development such as molar distalization
- Fixed mechano therapy cases (Begg, PEA, Tip edge, Edgewise, lingual)
- Retention procedures of above treated cases.

FIRST YEAR

- Complete textbook review of standard textbooks for post graduate orthodontics.
- Completion and display of preclinical exercises
- Training in computer applications and Orthodontic Photography.
- Submission of dissertation synopsis to the university.
- Presentation of seminars on basic sciences topics.
- Presentation of journal clubs on applied basic sciences.
- Entering clinicals.
- Treating clinical patients
- Poster presentation in orthodontic conferences / Table Clinics
- Mock exam
- University exam

SECOND YEAR

- Treating clinical patients
- Complete textbook review of standard textbooks for post graduate orthodontics.
- Journal clubs
- Seminar presentations
- Working on dissertation
- Paper presentation in orthodontic conference

THIRD YEAR

- Submission of Dissertation
- Treating clinical patients
- Journal clubs
- Presentation of Seminars
- Mock exam
- **University exam**

Seminars: One Seminar per week to be conducted in the department. A minimum of five seminars should be presented by each student each year. The seminar write up with a list of references is to be approved by the staff well in advance of the presentation. The typed and hard bound copies, as well as soft copies are to be submitted to the department library within ten days of the seminar presentation.

Journal club: One Journal club per week to be conducted in the department. A minimum of 15 journal clubs should be presented by each student each year. The article abstracts along with a copy of the presented articles in the prescribed card format should be maintained and updated regularly in the department library.

DEPARTMENT INTERNAL ASSESSMENT AS PER DCI PROFORMA DC
EVERY SIX MONTHS

For PG Diploma :

- Each PG Diploma student should start with a minimum of 30 cases of his own. Additionally he/she should handle all assigned transferred cases.
- Each student is required to have completely treated at least 3 cases till the stage of retention, before appearing for university exams.

- Five Seminars and Five Journal Clubs should be presented by the PG Diploma student in the 2 year Diploma course.
- One National Conference and Convention to be attended by the student. One Paper/Poster Presentation in the Convention to be given.

RECOMMENDED TEXTBOOKS

1. WILLIAM R. PROFFIT, Contemporary Orthodontics
2. GRABER & VANARSDALL, Orthodontics - Current Principles & Techniques
3. MOYERS, Text Book of Orthodontics
4. GRABER, Orthodontics Principles and practice.
5. GRABER, PETROVIC, & RAKOSI Dentofacial Orthopedics with Functional Appliances
6. ATHENASIOU E, Orthodontic cephalometry
7. JACOBSON, Radiographic Cephalometry
8. RAKOSI, An Atlas And Manual of Cephalometric Radiography
9. ENLOW, Handbook of Facial Growth
10. EPKER & FISH, Dentofacial Deformities Vol. 1
11. PROFFIT & WHITE, Surgical Orthodontic Treatment
12. NANDA, Biomechanics in Clinical Orthodontics
13. NANDA & BURSTONE, Retention and Stability in Orthodontics
14. OKESON, Management of T.M. Disorders And Occlusion
15. LOU NORTON & DAVIDOWITZ, Biology of tooth movement
16. GERHARD PFIEFER, Craniofacial Abnormalities and clefts of the lip, Alveolus and Palate.
17. OKESON, TMJ Disorders.
18. M. RAKOSI & GRABER, A Colour Atlas of Dental Medicine
19. BURSTONE, Modern Edgewise Mechanics and Segmented Arch Technique
20. W J CLARK, The Twin Block Functional Therapy
21. McNAMARA & BRUDON, Mixed Dentition
22. NANDA, The Developmental Basics of Occlusion and Malocclusion
23. TIMMS, Rapid Maxillary Expansion
24. WILLIAMS & COOKS, Fixed Orthodontic Appliances
25. RICKETTS, Bioprogressive Therapy
26. PHILLIPS Science of dental materials (9th and 10th edition)

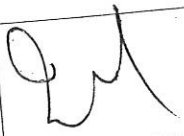

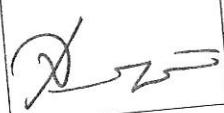
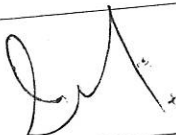




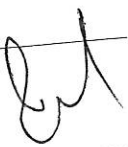
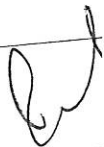



PRE-CLINICAL ACTIVITY

WIRE BENDING EXERCISES

DATE	WORK DONE	WRITE UP	STAFF SIGN
	NON APPLIANCE EXERCISES		
M 23/5/19	Straightening of 1mm wire	✓	
M 23/5/19	Straightening of 0.6mm wire	✓	
R 27/5/19	Making a square using 1mm wire	✓	EM
R 27/5/19	Making a rectangle using 1 mm wire	✓	EM
A 24/5/19	Making a triangle using 1mm wire	✓	AR
A 24/5/19	Making a circle using 1m wire	✓	AR
R 28/5/19	Making of 2 'U' and 2 'V' using 1mm wire	✓	EM
	SOLDERING EXERCISES		
P 29/6/19	Star - Large Triangle 1 1/2" and Small Triangle 1"	✓	DAS
M 25/6/19	Christmas Tree 1" with 2 spurs on each side	✓	

DATE	WORK DONE	WRITE UP	STAFF SIGN
	CLASPS		
M 1/6/19	Making of C-clasp one molars using 1mm wire (1 mesial tag & 1 distal tag)	✓	
R 3/6/19	Making of Jacksons clasp on molars using 1mm wire-2no	✓	[Signature]
R 6/6/19	Making of Triangle clasp using 0.7mm wire-2no	✓	[Signature]
R 4/6/19	Making of Adams clasp on molars using 0.7mm wire-2no.	✓	[Signature]
M 8/6/19	Making of Adams clasp on premolars using 0.7mm wire-2no.	✓	
R 7/6/19	Making of Adams clasp on incisors using 0.7mm wire	✓	[Signature]
R 10/6/19	Making of Adams clasp with single arrowhead using 0.7mm wire	✓	[Signature]
R 11/6/19	Making of Adams clasp with eyelet using 0.7mm wire	✓	[Signature]
A 12/6/19	Making of Adams clasp with distal extension using 0.7mm wire	✓	[Signature]
A 12/6/19	Making of Delta clasp using 0.7mm wire	✓	[Signature]
	SPRINGS		
M 10/6/19	Making of finger springs – mesial and distal movements	✓	
A 13/6/19	Making of double cantilever spring	✓	[Signature]

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DATE	WORK DONE	WRITE UP	STAFF SIGN
15/6/19	Making of Coffin spring	✓	
13/6/19	Making of T - spring for buccal movement	✓	
14/6/19	Making of double T - spring for buccal movement of molars	✓	
CANINE RETRACTORS			
10/6/19	Making of U loop canine retractor	✓	
11/6/19	Making of Helical canine retractor	✓	
10/6/19	Making of buccal canine retractor	✓	
13/6/19	Making of palatal canine retractor	✓	
LABIAL BOWS			
18/6/19	Making of short labial bows	✓	
19/6/19	Making of long labial bows	✓	
20/6/19	Making of reverse labial bows	✓	
21/6/19	Making of fitted labial bows	✓	
19/6/19	Making of split labial bows	✓	
22/6/19	Retention labial bow extending distal to second molar (Beggs)	✓	

DATE	WORK DONE	WRITE UP	STAFF SIGN
	APPLIANCES	✓	
A 28/6/19	Making of Hawley's Appliance	✓	A
A 5/7/19	Making of Quad Helix	✓	A
A 2/7/19	Making of Lingual Arch	✓	A
A 9/7/19	TPA	✓	A
P 14/7/19	Making of Nance Palatal Appliance	✓	P
P 20/7/19	Making of Activator	✓	P
A 3/8/19	Making of Bionator	✓	A
A 16/8/19	Making of Frankel's FR 2 appliance	✓	A
A 19/8/19	Making of Twin block appliance	✓	A
	BEGG WIRE BENDINGS		
	Ideal Bonwill Hawley arch wire		
	Making of cuspid circle		
	Making of bite opening bends - 2no		
	Standard arch wire		

DATE	WORK DONE	WRITE UP	STAFF SIGN
	Making of double back arch wire		
	Making of Bayonet bends vertical offset		
	Making of bayonet bends horizontal offset		
	Stage 1 arch wire		
	Stage 2 arch wire		
	Pre-stage 3 arch wire		
	Stage 3 arch wire		
	Making of 'V' bends		
	Making of vertical loops		
	Making of horizontal loops		
	Making of molar stop		
	Torquingauxillary		
	2 spur torquingauxillary		
	4 spur torqueing auxillary		
	Uprighting springs		
	Rotation springs		

DATE	WORK DONE	WRITE UP	STAFF SIGN
	UTILITY ARCHES		
	Passive – upper/lower		
	Protraction – upper/lower		
	Retraction – upper/lower		
	Intrusion – upper/lower		
	Other Intrusion Arches 1. 2. 3.		
	LOOPS		
	Bull loop		
	Tear drop loop		
	Key hole loop		
	‘T’ loop		
	‘L’ loop		
	Double delta loop		
	Vertical opening loop		

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CEPHALOMETRICS

DATE	ANALYSIS	WRITE UP	STAFF SIGN
	Lateral cephalogram tracing and super imposition		
	Steiner's analysis		
	Down's analysis		
	Tweed analysis		
	Rickett's analysis		
	Sassouni's Analysis		
	Burstone analysis Hard Tissue		
	Burstone Analysis Soft tissue		
	Rakosi's analysis		
	Mc Namara analysis		
	Bjork analysis		
	Coben's analysis		
	Harvold's analysis		
	Holdaway Analysis		
	Arnett Bergman Analysis		

EXERCISES: BEGGS / PEA / LINGUAL / MICRO IMPLANTS
TYPHODONT

DATE	WORK DONE	WRITE UP	STAFF SIGN

EXERCISES: BEGGS / PEA / LINGUAL / MICRO IMPLANTS
TYPHODONT

DATE	WORK DONE	WRITE UP	STAFF SIGN

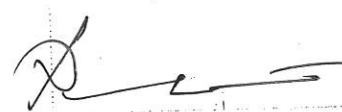
EXERCISES: BEGGS / PEA / LINGUAL / MICRO IMPLANTS
TYPHODONT

DATE	WORK DONE	WRITE UP	STAFF SIGN

DEPARTMENT OF ORTHODONTICS
 PRECINICAL
 CONTENTS

UG

Sl. No.	PARTICULARS
1.	Instructions to the Students
2.	Basic Wire Bending Exercises
3.	Clasps
4.	Springs
5.	Canine Retractors
6.	Bows
7.	Appliances
8.	Case Record
9.	Seminars



THIRD YEAR D.U.O

BASIC WIRE BENDING EXERCISES

EXERCISE NO.	Description of work	Diameter of Wire In m.m.	Dental Nomenclature	Date of Submission	Grade	Signature of Staff
1.	Straightening of wire Sineb.	0.9mm	-	19/2/18.	B1	SA
2.	Straightening of wire Sineb.	0.9mm	-	19/2/18	B1	SA
3.	Straightening of wire Sineb	0.9mm.	-	19/2/18	B1	SA
4.	Square (lineb)	0.9mm	-	19/2/18 19/2/18.	B	SA
5.	Triangle (5x1 lineb)	0.9mm	-	19/2/18	B1	SA
6.	UV	0.9mm	-	19/2/18	B	SA
7.	Circle	0.9mm	-	19/2/18	B	SA
8.	Rectangle.	0.9mm.	-	19/2/18.	B	SA

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CLASPS

EXERCISE NO.	Description of work	Diameter of Wire in m.m.	Dental Nomenclature	Date of Submission	Grade	Signature of Staff
1.	C clasp	0.9mm.	26	8/11/19.	B	[Signature]
2.	C clasp	0.9mm	16	19/10/19.	B	[Signature]
3.	C clasp	0.9mm	16	8/11/19.	B	[Signature]
4.	J clasp	0.9mm.	16	8/11/19 24/10/19	B	[Signature]
5.	J clasp	0.9mm	16	24/10/19.	B	[Signature]
6.	J clasp	0.9mm.	26	25/10/19	B	[Signature]
7.	J clasp	0.9mm.	26.	25/10/19.	B	[Signature]
8.	C clasp.	0.9mm	26	25/10/19	B	[Signature]

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EXERCISE NO.	Description of work	Diameter of Wire in m.m.	Dental Nomenclature	Date of Submission	Grade	Signature of Staff
1.	adam's clasp.	0.7mm	16	8/11/19	B	[Signature]
2.	adam's clasp	0.7mm	26	8/11/19	B	[Signature]
3.	adam's clasp	0.7mm.	16	8/11/19.	B	[Signature]
4.	adam's clasp	0.7mm	26.	8/11/19.	B	[Signature]
5.	Triangular clasp	0.7mm.	14915	8/11/19.	A	[Signature]
2.	Triangular clasp	0.7mm.	14915	8/11/19	A	[Signature]
3.	Triangular clasp	0.7mm	24925	8/11/19	A	[Signature]
4.	Triangular clasp.	0.7mm	24925	8/11/19.	A	[Signature]

FINAL YEAR B.D.S. SPRINGS

EXERCISE NO.	Description of work	Diameter of Wire In m.m.	Dental Nomenclature	Date of Submission	Grade	Signature of Staff
1.	Finger Spring mesial movement.	0.6mm	21	29/11/19	BT	
2.	Finger Spring distal movement.	0.6mm	21	29/11/19	BT	
3.	Finger spring distal movement.	0.6mm	11	29/11/19	BT	
4.	Finger spring mesial movement.	0.6mm	11	29/11/19	BA	
5.	Z Spring	0.6mm.	4	29/11/19	BT	
6.	Z spring.	0.6mm.	4	29/11/19	BT	
7.	Z spring	0.6mm	29	29/11/19	A	
8.	Z spring	0.6mm.	21	29/11/19	BA	

CANINE RETRACTORS

EXERCISE NO.	Description of work	Diameter of Wire In m.m.	Dental Nomenclature	Date of Submission	Grade	Signature of Staff
1.	U loop canine retractor	0.6mm	23-24	26/11/19	B+	[Signature]
2.	U loop canine retractor	0.6mm	19-14.	29/11/19	B	[Signature]
3.	Buccal canine retractor	0.6mm	23-24	29/11/19	B	[Signature]
4.	Buccal canine retractor	0.6mm	13-14	29/11/19	B	[Signature]
5.	Helical canine retractor	0.6mm	23-24.	28/11/19	B+	[Signature]
6.	Helical canine retractor	0.6mm	B-14.	28/11/19	B+	[Signature]
7.	Palatal canine "	0.6mm	23	27/11/19.	B+	[Signature]
8.	Palatal "	0.6mm	13		B	[Signature]

BOWS

EXERCISE NO.	Description of work	Diameter of Wire In m.m.	Dental Nomenclature	Date of Submission	Grade	Signature of Staff
1.	long labial bow	0.7mm	14-24	29/11/19	B	[Signature]
2.	long labial bow.	0.7mm	14-24.	29/11/19	B	[Signature]
3.	short labial bow.	0.7mm.	13-23	28/11/19	(B+)	[Signature]
4.	short labial bow.	0.7mm.	13-23	29/11/19	B	[Signature]
5.	Reverse labial bow.	0.7mm	13-23	29/11/19	B	[Signature]
6.	Reverse labial bow.	0.7mm	13-23.	29/11/19,	B	[Signature]

APPLIANCES

EXERCISE NO.	Description of work	Date of Submission	Grade	Signature of Staff
1.	Hawley's appliances - wire bending		B	[Signature]
2.	Hawley's appliances		B	[Signature]
3.	Begg's retainers - wire compo - hand!		B	[Signature]
4.	Begg's retainers			