PANINEEYA MAHAVIDYALAYA INSTITUTE OF DENTAL SCIENCES AND RESEARCH CENTER

HYDERABAD, TELANGANA

DEPARTMENT OF ANATOMY

MDS SYLLABUS

Gross anatomy

- 1. Scalp & temple
- 2. Face Muscles, facial artery, facial vein
- 3. Triangles of neck
- 4. Deep structures of neck
 - a. Thyroid gland, parathyroid gland
 - b. Trachea & Oesophagus
 - c. Sympathetic chain
- 5. Blood supply of head and neck) Carotid system carotid vessels, vertebral artery, subclavian artery
- 6. Venous drainage of head and neck (Jugular system internal and external)
- 7. Autonomic nerve supply of head and neck
- 8. Lymphatic drainage of head and neck
- 9. Salivary glands –Parotid , Submandibular and sublingual
- 10. Temporal and infra temporal fossa
- 11. Temperomandibular joint & muscles of mastication
- $12.V^{th}$, VII^{th} , IX^{th} , XI^{th} , XII^{th} cranial nerves
- 13.Oral cavity & Tongue
- 14.Palate
- 15. Nasal cavity nasal septum & lateral wall
- 16.Para nasal air sinuses

- 17.Pharynx
- 18.Larynx
- 19. Dural venous sinuses
- 20.Brain

Osteology

- 1. Foetal and adult skull
- **2.** Maxilla & Mandible development, ossification, age changes and evolution of mandible in detail

Histology

- 1. Microscopy
- 2. Epithelium
- **3.** Glands
- 4. Connective tissue
- 5. Bone
- **6.** Cartilage
- 7. Lymphatic system
- 8. Muscle
- **9.** Neural tissue
- **10.**Endocrine system
- 11.Tongue
- 12. Salivary glands
- **13.**Skin

Embryology

- 1. Development of face
- 2. Development of palate
- **3.** Development of tongue
- **4.** Development of teeth
- 5. Development of maxilla
- **6.** Development of mandible
- 7. Development of salivary glands
- 8. Developmental anomalies of oral and maxillofacial region
- 9. Branchial arches

Genetics

- 1. Modes of inheritance
- 2. Chromosomal anomalies of oral tissues
- **3.** Single gene disorders
- 4. Genetic counseling
- 5. DNA extraction, PCR, Blotting techniques

Basic medical sciences classes for MDS students (From July to September of every year)

Following topics would be covered

S.No	Торіс				
1	Scalp & temple				
2	Face – Muscles, facial artery, facial vein & Development of face Developmental anomalies of oral and maxillofacial region				
3	Foetal and adult skull & Maxilla				
	Branchial arches				
4	Mandible – development, ossification, age changes and evolution of mandible				
	detail				
5	Triangles of neck				
6	Deep structures of neck –				
	a. Thyroid gland, parathyroid gland (Including Histology)				
	b. Trachea & Oesophagus				
7	Blood supply of head and neck) Carotid system - carotid vessels, vertebral artery,				
	subclavian artery				
8	Venous drainage of head and neck (Jugular system – internal and external)				
	Autonomic nerve supply of head and neck				
	Lymphatic drainage of head and neck				
9	Salivary glands –Parotid, (Including Histology & Development)				
	Submandibular and sublingual(Including Histology & Development)				
10	Temporal and infra temporal fossa				
11	Temperomandibular joint & muscles of mastication				
12	V th & VII th cranial nerves				
13	IX th , XI th & XII th cranial nerves				
14	Oral cavity & Tongue and its development				
15					
16	Palate & its Development Nasal cavity – nasal septum & lateral wall				
17	Para nasal air sinuses				
18	Pharynx				
19	Larynx				
20	Dural venous sinuses				
21	Pituitary gland – development & histology				
22	Modes of inheritance				
23	Chromosomal anomalies of oral tissues				
	Single gene disorders				
24	Brain				
25	Epithelium & Connective tissue				
26	Bone & Cartilage				
27	Lymphatic system & Skin				
28	Muscle & Neural tissue				