

Faculty of Dentistry



JSS Academy of Higher Education & Research

(Deemed to be University)

Accredited "A" Grade by NAAC

Sri Shivarathreeshwara Nagar, Mysuru – 570 015

Regulation & Syllabus

**DENTAL OPERATING ROOM
ASSISTANT (DORA)- 2016**

DORA

REGULATIONS AND SYLLABUS

Title	Dental Operating Room Assistant Course (DORA)
Institution	JSS Dental College and Hospital, JSS University
Aims	<ul style="list-style-type: none"> ● To introduce Dental Operating Room Assistant course ● To Contribute in improving clinical skills and assisting the Dental Surgeon
Program Objectives	<p>By the end of the program the student should be competent to become partners in oral health.</p> <ul style="list-style-type: none"> ● To assist the dental surgeon in maintenance of the dental clinic ● To assist the dental surgeon in sterilization ● To enhance the efficiency of the dental surgeon by handling the required instruments ● To handle various dental materials and medications as required ● To be able to aid in the functioning and data maintenance of a dental clinic ● To assist the dental surgeon in recognizing dental emergencies in the absence of dental surgeon ● To assist the dental surgeon in explaining post operative instructions after extraction, surgeries, restoration & dental insertion ● Demonstrating oral hygiene and brushing technique
Eligibility	<p>A candidate for admission for Dental Operating Room Assistant Course must be completed</p> <ul style="list-style-type: none"> ● 10 + 2 examination with Biology as a subject from a recognized by any Board or University (50% is not compulsory) ● The candidate should be 17 year old
Duration	<ul style="list-style-type: none"> ● 2 years course
Attendance	Should have not less than 75% of the full course of Lecture, practical, clinical conducted in each of the subject of examination
Selection of Candidates	Candidates shall be selected strictly on basis of academic merit /cumulative performance of 10 + 2 examination
Faculty	<ul style="list-style-type: none"> ● Assistant Professor – 1 No. ● Demonstrator – 1 No. ● Other staff – as required ● One Instructor for every 10 students in clinic ● One instructor for every 20 students in the Technical Laboratory
Room and Equipment	<ul style="list-style-type: none"> ● One Histopathology Lab with sufficient no.of microscope ● One class room with LCD and OHP ● Professional Library

Examination pattern	<p>Primary diploma examination</p> <p>Final diploma examination</p> <p>Primary examination:</p> <p>At the end of first year</p> <p>Paper I : Anatomy, Physiology, Histology, Pathology and Bacteriology</p> <p>Paper II : Basic nursing</p> <p>Paper III: Computer, Office Management, Biomedical waste disposal and sterilization</p> <p>Written :100 marks</p> <p>Oral : 50 marks</p> <p>Practical : 50 marks</p> <p>Total : 200 marks</p> <p>Each written paper shall be of 3 hours</p> <p>FINAL DIPLOMA EXAMINATION:</p> <p>Paper I : Oral Anatomy & Physiology, Diseases of the teeth and gums and Dental materials</p> <p>Paper II : Operating room technique, Chair side assistants, Dental lab routine</p> <p>Paper III: Minor and major surgical assistance with concept of BTLS (Basic trauma life support), Dental radio imaging, Dental ethics and jurisprudence, orientation in dentistry</p> <p>Written : 100 marks</p> <p>Oral : 50 marks</p> <p>Practical : 50 marks</p> <p>Total : 200 marks</p> <p>Each written paper shall be of 3 hours</p>
Passing marks	50% marks in each subject
Program Fee	



Syllabus basic course for DORA:

- a. Florence Nightingale's basis of nursing care
- b. Tour and upkeep of the dental center, operator and various departments
- c. Operator discipline and discipline of the patient
- d. Admission procedure to MI room and wards
- e. Manipulation of stretcher cases
- f. Basic trauma life support
- g. Anatomy:
 - i. Tissues of the body
 - ii. Musculoskeletal system of the head and neck
 - iii. Circulatory, respiratory and nervous system
 - iv. Skin and organs of special senses (eyes, ears, nose and tongue)
- h. Physiology:
 - i. Circulatory system
- Digestive system
 - ii. Respiratory system
 - iii. Endocrine system
 - iv. Renal function
- i. Elementary microbiology
- j. First aid and bandaging
- k. Basic life support, CPR
- l. Asphyxia
- m. Shock
- n. Sterilization, disinfection and methods for control of spread of disease
- o. Basic computer training for two weeks
- p. Introduction to computers, computer hardware (CPU), input device, storage media, output devices, printer and other peripherals.
- q. Computer software – windows (introduction)
- r. Application packages: MS DOS and Windows 2000, MS Word, Power Point, Excel and Access
 - i. Introductory class on other packages
 - ii. Security
- s. Introductory class on use of computers in hospital

II. Syllabus main course for DORA:

Oral Anatomy and Physiology (Elementary)

- 1. Bones of the skull, maxilla and mandible
- 2. Oral cavity: Lips, tongue, pharynx and teeth
- 3. Structure of teeth and surrounding tissue
- 4. Dentition: Temporary and permanent
- 5. Nerve and blood supply of teeth and other soft tissue of the oral cavity
- 6. Muscles of mastication and facial expression
- 7. Saliva and control of excessive secretion in dental surgery
- 8. Blood: RBC, WBC, Plasma
- 9. Blood coagulation: Bleeding and clotting time and blood groups

Disease of teeth and gums (Elementary)

1. Dental Caries
2. Pulp disease, alveolar abscess and cellulites
3. Periodontal diseases, gingivitis / periodontitis
4. Attrition, abrasion, erosion, fluorosis of teeth

Disease of concern in dental practice (communicable)

1. Aids
2. Hepatitis

Materiamedica

1. Materials / drugs and their uses in dental surgeries – abundant and astringents
2. Preparation of solution in different percentages used in dental surgery
3. Antiseptics and mouth washes


Dental surgery routine

1. Duties of DORA
2. Personal hygiene and reception of patient
3. Surgery upkeep and maintenance
4. Infection control in dental practice
5. Sterilization of instruments, trays, dressings and various other items used in dental surgery. Asepsis and antiseptic methods used
6. Care of patients in shock and syncope in dental chair
7. Operation theatre technique and present concept in assistance
8. Preparation of patient for general and local anesthesia (pre medication and after care)
9. Preparation of pathological specimen from the mouth for dental museum / lab investigation
10. Dental emergencies and their management
11. Home care after extraction, filling and denture insertion
12. Oral hygiene and brushing technique
13. First aid management and transportation of maxillofacial injury cases
14. Layout of instrument trolleys for
 - Surgical extraction of teeth
 - Alveolectomies and epicetomy
 - Fracture jaws
 - Endodontics
 - Gingivectomy, mucoperiosteal flaps
 - Denture work

Radiography

1. X-ray machine, its component and maintenance
2. X-ray film, method of exposure, developing and fixing
3. Hazards of X-ray radiation and methods of prevention
4. Dental radiography – dental films their mounting and records keeping

Dental lab procedure:

1. Dental materials and their manipulation: restorative materials, impression materials and acrylic resins
 2. Various types of fixed and removable or the appliances used
 3. Materials used in maxillofacial and surgical prosthesis
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Maxillofacial surgery:

1. Fracture mandible and maxilla – main characteristic
2. Maintenance of oral hygiene in fracture jaw cases and periodical attendance of maxillofacial injury cases during post op period in ward
3. Nutrition, feeding and transportation of fracture jaw cases

Dental equipment and stores:

1. Recognition and knowledge of various dental equipment and stores used in dental establishments
2. Organization of dental stores, storage, accounting and issue of dental stores
3. Handling and maintenance of dental items
4. Assembly and minor repair to dental equipment
5. Poisonous drugs – storage and labeling: short life items and their care, turnover

Dental documentation and office procedures

1. Knowledge about layout and upkeep of waiting rooms
2. Registration of cases and scheduling of appointment.
3. Dental treatment record maintenance and abbreviations for recording treatment.
4. Dental statistics including collection of dental health information and its communication.

Dental jurisprudence and ethics

1. History of dentistry.
2. Professional ethics
3. Legal implication in dental practice.

Mandatory Course Requirement of Practical / Clinical training Dental OperatingRoom Assistant

Complete the column below giving the information regarding the following:

- a) BTLS practice on mannequin
- b) Pouring of models and base preparation
- c) Use of Models for
 - i) Splint fabrication
 - ii) Arch bar fixation
- d) Suturing techniques on mackintosh pillow
- e) Periodontal splints
- f) Bite block preparation
- g) Preparation of blocks for squash bite
- h) Surgery fumigation & equipment sterilization & maintenance
- i) Emergency equipment & drugs know-how
- j) Trolley layout for minor / major surgery
- k) Trolley layout for various procedures in dentistry
- l) Various X-ray techniques
- m) Assistance in various specialties:
 - i) Prosthetic dentistry
 - ii) Restorative dentistry
 - iii) Oral Surgery
 - iv) Periodontics
 - v) Endodontic
 - vi) Orthodontics
 - vii) Pediatric Dentistry

CURRICULUM

PRIMARY: Primary nursing training to be conducted in the attached hospital

Subject		PERIODS				Total
		L	LD	PD	P	
General Anatomy	Periods laid down by DCI	50	100	-	-	150
	Actual periods					
General Physiology & Histology	Periods laid down by DCI	20	40	-	-	60
	Actual periods					
Pathology & Bacteriology	Periods laid down by DCI	30	70	-	-	100
	Actual periods					
Basic Nursing training	Periods laid down by DCI	50	50	70	100	270
	Actual periods					
Basic Life Support, CPR	Periods laid down by DCI	02	02	02	06	12
	Actual periods					
Asphyxia	Periods laid down by DCI	02	02	-	02	06
	Actual periods					
Shock	Periods laid down by DCI	02	02	02	02	08
	Actual periods					
Sterilisation, disinfection and methods of control of spread of disease	Periods laid down by DCI	16	16	16	32	80
	Actual periods					
Bio-Medical waste management	Periods laid down by DCI	03	03	04	12	22
	Actual periods					
Basic computer trg (Pt record & OPD mgt system)	Periods laid down by DCI	24	12	10	20	66
	Actual periods					
Food & Nutrition	Periods laid down by DCI	10	-	06	10	26
	Actual periods					
Office assistance, Practice	Periods laid down by DCI	20	20	10	30	80
	Actual periods					
GRAND TOTAL						880

L: LECTURE 229, LD: LECTURE DEMONSTRATION 317, PD: PRACTICAL DEMONSTRATION 120, P: PRACTICAL 214

FINAL

Subject		PERIODS				Total
		L	LD	PD	P	
Oral anatomy & Physiology	Periods laid down by DCI	14	04	-	03	21
	Actual periods					
Diseases of the gum & teeth & preventive aspects	Periods laid down by DCI	04	02	-	-	06
	Actual periods					
Materia Medica,	Periods laid down by DCI	06	-	08	20	34
	Actual periods					
Dental Surgery routine	Periods laid down by DCI	26	26	12	301	365
	Actual periods					
Impression materials & Dental Lab procedures	Periods laid down by DCI	03	09	04	40	56
	Actual periods					
Assistance in Dental surgery/minor / major OT BTLS & eqpt with maintenance	Periods laid down by DCI	05	11	21	148	185
	Actual periods					
Dental instruments, eqpt & stores	Periods laid down by DCI	06	01	-	24	31
	Actual periods					
Dental documentation & office procedures	Periods laid down by DCI	10	06	-	105	121
	Actual periods					
Dental radiography	Periods laid down by DCI	05	02	04	20	31
	Actual periods					
Dental jurisprudence & ethics	Periods laid down by DCI	03	-	-	-	03
	Actual periods					
Miscellaneous (Know-how of all specialities)	Periods laid down by DCI	-	-	-	103	103
	Actual periods					
GRAND TOTAL						956

L: Lecture 82 LD : Lecture Demonstration 61 PD Practical Demonstration 49
P : Practical 764

Sl. No.	Department	Syllabus	Lecture	Lecture Demonstration	Practical Demonstration	Practical	Total
1	General Anatomy	i. Tissues of the body ii. Musculoskeletal system of the head and neck iii. Circulatory, respiratory and nervous system iv. Skin and organs of special senses (eyes, ears, nose and tongue)	50	100	-	-	150
2	Physiology	i. Circulatory system ii. Digestive system iii. Respiratory system iv. Endocrine system v. Renal function vi. Blood: RBC, WBC, Plasma vii. Blood coagulation: Bleeding and clotting time and blood groups	20	40	-	-	60
3	Oral Pathology	Pathology & bacteriology Elementary microbiology i. sterilization, disinfection and methods for control of spread of disease ii. Oral Anatomy and Physiology (Elementary) iii. Bones of the skull, maxilla and mandible iv. Oral cavity: Lips, tongue, pharynx and teeth v. Structure of teeth and surrounding tissue	30	70	-	-	100
			16	16	16	32	80
			14	4	-	3	21

Sl. No.	Department	Syllabus	Lecture	Lecture Demonstration	Practical Demonstration	Practical	Total
		vi. Dentition: · Temporary and permanent vii Nerve and blood supply of teeth and other soft tissue of the oral cavity viii.Muscles of mastication and facial expression					
4	Community Medicine	i. Bio Medical Waste Management ii. Disease of concern in dental practice (communicable) 1. AIDS 2. Hepatitis Dental jurisprudence & ethics	3 3	3 -	3 -	12 -	22 3
5	Oral Medicine	Disease of teeth and gums (Elementary) i. Dental Caries ii. Pulp disease, alveolar abscess and cellulites iii. Periodontal diseases, gingivitis / periodontitis iv. Attrition, abrasion, erosion, fluorosis of teeth	4	2	-	-	6
6	IT Section	i. Basic computer training for two weeks ii. Introduction to computers, computer hardware (CPU), input device, storage media, output devices, printer and other peripherals.	24	12	10	20	66

Sl. No.	Department	Syllabus	Lecture	Lecture Demonstration	Practical Demonstration	Practical	Total
		iii. Computer software - windows (introduction) iv. Application packages: MS dos and windows 2000, MS word, power point, excel and access v. Introductory class on other packages vi. Security vii. Introductory class on use of computers in hospital					
7	Bio-Chemistry	I. Food & Nutrition	10	-	6	10	26
8	MBA	Office Assistants practice	20	20	10	30	80
		Dental documentation & office procedures	10	6	-	105	121
9	Oral Surgery	i. Basic Life Support	2	2	2	6	12
		ii. CPR	2	2	-	2	6
		iii. asphyxia	26	26	12	301	365
		iv. shock					
		Dental surgery routine	5	11	21	148	185
		Assistance in Dental surgery/minor / major OT BTLS & eqpt With maintenance					

Sl. No.	Department	Syllabus	Lecture	Lecture Demonstration	Practical Demonstration	Practical	Total
10	Nursing	i. basic nursing training ii. Florence nightingale's basis of nursing care iii. Tour and upkeep of the dental center, operator and various departments iv. Operator discipline and discipline of the patient v. Admission procedure to MI room and wards vi. Manipulation of stretcher cases v. Basic trauma life support vi. first aid and bandaging	50	50	70	100	270
11	Conservative Dentistry & Oral Surgery	Materiamedica I. Materials / drugs and their uses in dental surgeries - abundant and astringents ii. Preparation of solution in different percentages used in dental surgery iii. Antiseptics and mouth washes	6	-	8	20	34
12	Prosthodontia	Impression materials & dental lab procedures	3	9	4	40	56
13	Periodontia	Diseases of the gum & teeth & preventive aspects	4	2	-	-	6
14	Oral medicine & radiology	Dental Radiography	5	2	4	20	31
15	Cons & oral surgery	Dental instruments, eqpt & stores	6	1	-	24	31