

Program Structure Template

School of Dental Sciences
BDS
(Bachelor of Dental Surgery)

SDS0101 (2020-25)



1. Standard Structure of the Program at University Level

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1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- **2.** Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship
- **4.** Seeking beyond boundaries

Core Values

- 1. Integrity
- 2. Leadership
- 3. Diversity
- 4. Community



1.2 Vision, Mission and Core Values of the School

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Vision of the School

To serve the society by being a global center in pursuit of academic and professional excellence in the field of dentistry.

Mission of the School

- 1. Creating a stimulating and flexible learning environment amongst the faculty and students
- 2. Strongly promoting research, innovation, clinical excellence
- **3.** Promote and inculcate ethical values and continued betterment in the dental profession and in all facets of life.

Core Values

- 1. Integrity
- 2. Leadership
- 3. Diversity
- **4.** Community



1.3 Program Educational Objectives (PEO)

1.3.1 Writing Program Educational Objectives (PEO)

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

- **PEO1** Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of Biological functions and be able to evaluate and analyze scientifically various established facts and data.
- **PEO2** Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well-being of the patient.
- **PEO3** Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.
- **PEO4** Adequate clinical experience required for general dental practice.
- **PEO5** Adequate knowledge of the constitution, biological function and behavior of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affects dentistry.



1.3.3 Program Outcomes (PO's)

PO1 A graduate should be able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible. PO₂ A graduate should acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures. **PO3** A graduate should possess skill to carry out certain investigative procedures and ability to interpret laboratory findings. **PO4** A graduate should Promote oral health and help prevent oral diseases where possible. **PO5** A graduate should be Competent enough to control of pain and anxiety among the patients during dental treatment. **PO6** A graduate should maintain a high standard- of professional ethics and conduct and apply these aspects of professional life. in all A graduate should seek to improve awareness and provide possible solutions for oral health **PO7** problems and needs throughout the community. **PO8** Willing to apply the current knowledge of dentistry in the best interest of the patients and the community. **PO9** Willingness to participate in the CPED Programs to update the knowledge and professional skill from time to time. To help and participate in t implementation of the national oral health policy. PSO₁ A graduate should be sound and able to diagnose and plan out the treatment options for the patient including referral to specialist, where required. PSO₂ A graduate should be keen on inculcating life-long learning process and should have instilled

him or her the ethical values of the profession

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Program Structure Template School of Dental Sciences Bachelor of Dental Surgery (BDS) Batch: 2020-2025

	n	G 11 4	Subjects	Teac	hing Lo	ad	Type of Course ¹ -
S.No.	Paper ID	Subject Code		L	Т	P	1. CC, 2. AECC 3. SEC, 4.DSE
			Theory S	ubjects			
1.	BDS101	BDS101	General Human Anatomy including head and neck	100	-	-	CC
2.	BDS102	BDS102	Bio Chemistry	120	-	-	CC
3.	BDS102	BDS102	General Human Physiology	120	-	-	CC
4.	BDS103	BDS103	Dental Anatomy; Embryology and Histology	105	-	-	CC
			Practical/Viva	a-Voce/Ju	ıry		
5.	BDS101	BDS101	General Human Anatomy including head and neck	-	-	175	CC
6.	BDS102	BDS102	Bio Chemistry	1	-	60	CC
7.	BDS102	BDS102	General Human Physiology	-	-	60	CC
8.	BDS103	BDS103	Dental Anatomy; Embryology and Histology	-	-	250	
		7	TOTAL CREDITS	_			NA



Program Structure Template School of Dental Sciences Bachelor of Dental Surgery (BDS)

Batch: 2020-2025

				Te	aching I	Load	
S.No.	Paper ID	Subject Code	Subjects	L	T	P	Type of Course ¹ - 1.CC, 2. AECC, 3.SEC, 4.DSE
	•		Theory Subjects				
1.	BDS20	BDS201	General Pathology	120	-	105	CC
2.	BDS20 1	BDS201	Microbiology	120	ı	105	CC
3.	BDS20 2	BDS202	General & Dental Pharmacology	70	ı	20	CC
4.	BDS20 3	BDS203	Dental Materials	80	ı	240	CC
	Practical/Viva-Voce/Jury						
5.	BDS25	BDS251	Pre-Clinical Prosthodontics an	25	-	300	CC
6.	BDS25	BDS252	Pre-Clinical Conservative Dent	25	-	200	CC
	TOTAL CREDITS						NA

¹ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program Structure Template School of Dental Sciences Bachelor of Dental Surgery (BDS) Batch: 2020-2025

				Tea	ching L	oad	
S.No.	Paper ID	Subject Code	Subjects	L	Т	P	Type of Course ² - 1.CC, 2.AECC, 3.SEC, 4.DSE
	•		THEORY SUBJECT	ΓS			
1.	BDS30	BDS301	General Medicine	60	-	-	CC
2.	BDS30 2	BDS302	General Surgery	60	-	-	CC
3.	BDS30	BDS303	Oral Pathology and Microbiology	145	-	-	CC
			Practical/Viva-Voce/Jur	·y			
4.	BDS30	BDS301	General Medicine	-	-	90	CC
5.	BDS30 2	BDS302	General Surgery	-	-	90	CC
6.	BDS30	BDS303	Oral Pathology and Microbiology	-	-	80	CC
	TOTAL CREDITS						NA

² CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program Structure Template School of Dental Sciences Bachelor of Dental Surgery (BDS) Batch: 2020-2025

	Danan	Subject		Te	aching	Load	Type of Course ³ -
S.No.	Paper ID	Code	Subjects	L	T	P	1.CC, 2. AECC, 3.SEC, 4.DSE
			Theory Subjects	•			
1.	BDS40	BDS401	Public Health Dentistry	60	-	-	CC
2.	BDS40 2	BDS402	Periodontology	80	ı	ı	CC
3.	BDS40	BDS403	Orthodontics & Dentofacial Ort	50	1	-	CC
4.	BDS40 4	BDS404	Oral Medicine & Radiology	65	1	-	CC
5.	BDS40 5	BDS405	Oral & Maxillofacial Surgery	70	1	-	CC
6.	BDS40 6	BDS406	Conservative Dentistry & Endod	110	-	-	CC
7.	BDS40 7	BDS407	Prosthodontics and Crown & Bri	110	-	-	CC
8.	BDS40 8	BDS408	Paediatric and Preventive Dent	65	ı	ı	CC
			_				

			Practical/Viva-Voce/Ju	ry			
9.	BDS401	BDS401	Public Health Dentistry	-	-	290	CC
10.	BDS402	BDS402	Periodontology	-	-	200	CC
11.	BDS403	BDS403	Orthodontics & Dentofacial Ort	-	-	200	CC
12.	BDS404	BDS404	Oral Medicine & Radiology	-	-	200	CC
13.	BDS405	BDS405	Oral & Maxillofacial Surgery	-	-	360	CC
14.	BDS406	BDS406	Conservative Dentistry & Endod	-	-	460	CC
15.	BDS407	BDS407	Prosthodontics and Crown & Bri	-	-	460	CC
16.	BDS408	BDS408	Paediatric and Preventive Dent	-	-	200	CC
	TOTAL CREDITS					NA	

³ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Course Templates – Year 1

2.1 Template A1: Syllabus

	Template A1: Syllabus	
	nool: School of Dental	Batch: 2020-2025
	ences	
Pro	gram:	BDS (Bachelor of Dental Surgery)
1	Course Code	BDS101
2	Course Title	General Human Anatomy including embryology & histology
3	Credits	NA
4	Contact Hours	100-0-175
	(L-T-P)	
	Course Type	Compulsory (CORE)
5	Course Objective	 To know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures. To know the anatomical basis of disease and injury. To know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes. To know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered. To have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards. To know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques. To know the anatomy of cardio-pulmonary resuscitation.
6	Course Outcomes	CO101.1: Dental student with knowledge on normal disposition of the structures in the body, microscopic structure of the various tissues, nervous system to locate the site of lesions, sectional anatomy of head neck and brain CO101.2: Dental student possessing skills to locate various structures of head and neck of the body, identify various tissues under microscope CO101.3: Dental student with an integrated knowledge on basic sciences and clinical subjects
	<u> </u>	
7	Course Description	The course provides knowledge and insight into, the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures



8	Outline syllab	ous	
	BDS101.A	Unit A INTR	ODUCTION
	BDS101.A1	Unit A Topic 1	Anatomical terms. Skin, superficial fascia & deep fascia Cardiovascular system, portal system collateral circulation and arteries.
	BDS101.A2	Unit A Topic 2	Lymphatic system, regional lymph nodes. Osteology - Including ossification & growth of bones. Myology – Including types of muscle tissue & innervations.
	BDS101.A3	Unit A Topic 3	Syndesmology – Including classification of Joints. Nervous system
	BDS101.B	Unit B HEAD &	& NECK
	BDS101.B1	Unit B Topic 1	Head and neck
	BDS101.B2	Unit B Topic 2	Thorax
	BDS101.B3	Unit B Topic 3	Abdomen
	BDS101.B4	Unit B Topic 4	Clinical procedures
	BDS101 C Unit C EMBRY		OLOGY
	BDS101.C1	Unit C Topic 1	Oogenesis, Spermatogenesis, Fertilisation, Placenta, Primitive streak, Neural crest,
	BDS101.C2	Unit C Topic 2	Bilaminar and trilaminar embryonic disc, Intra embryonic mesoderm
	BDS101.C3	Unit C Topic 3	Formation and face, notochord formation & fate, Pharyngeal arches, pouches & clefts

BI	DS101.C4	Unit C	Development of face, tongue, palate, thyroid gland, pituitary gland,				
		Topic 4	salivary glands, and anomalies in their development				
BI	DS101.C5	Unit C	Tooth development in brief.				
		Topic 5					
BI	DS101 D	Unit D					
		HISTOLOGY					
BI	DS101 D1	Unit D	The Cell				
		Topic 1					
BI	DS101 D2	Unit D	Basic tissues - Epithelium, Connective tissue including cartilage				
		Topic 2	and bone, Muscle Tissue, Nervous tissue: Peripheral nerve, optic				
			nerve, sensory ganglion, motor ganglion, Skin				
BI	DS101 D3	Unit D	Classification of Glands				
		Topic 3	Salivary glands (serous, mucous and mixed gland)				

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	BDS101 D4	Unit D	Blood vessels, Lymphoid tissue			
		Topic 4				
	BDS101 D5	Unit D	Tooth, lip, tongue, hard palate, oesophagus, stomach,			
		Topic 5	duodenum ,ileum, colon, vermiform appendix Liver, Pancreas,			
			Lung, Trachea ,Epiglottis			
	BDS101 D6	Unit D	Thyroid gland, para thyroid gland, supra renal gland and			
		Topic 6	pituitary gland, Kidney, Ureter, Urinary bladder, Ovary and			
			testis.			
	BDS101 E	Unit E				
			L GENETICS			
	BDS101.E1	Unit E	Mitosis, meiosis			
		Topic 1				
	BDS101 E2	Unit E	Chromosomes, gene structure			
	BDS101.E3	Topic 2 Unit E	Mendelism, modes of inheritance			
	DDS101.E3	Topic 3	Wendensin, modes of innertrance			
		Attendan				
		ce	Minimum 75% is Needed for both theory and clinical practical			
		Quizzes	Taken in every 3 months			
		Presentat	•			
		ions	Video Presentation			
1	Course	Any	Ducingt honed learning Assignments			
•	evaluation	Other	Project based learning, Assignments			
		Annual	Theory-100 Marks			
		examinat	Practical – 100 Marks			
		ion				
			LL (Richard S.) Clinical Anatomy for Medical Students, Ed. 5,			
		2. RJ L	AST'S Anatomy – 9th edition.			
		3. Cuni	ningham Manual of Practical Anatomy: Head & Neck & Brain			
		Ed.1	5.Vol.III, Oxford Medical publication.			
2	Text book/s*	4. Fund	etional Histology, Ed. 2, Churchill Livingstone.			
•		5. Med	ical Embryology, Ed. 6.			
		6. Grant's Atlas of Anatomy. Williams & Wilkins.				
			LIAMS, Gray's Anatomy, Ed.38., Churchill Livingstone.			
			ERY, Medical Genetics.			
			. Chaurasia			
3	Other	TED learn				
	References	EBSCOHO				
		v arious sc	ientific articles from various sources			



Course Templates – 2.1 Template A1: Syllabus

Sch	nool: School of Dental	Batch: 2020-2025					
Sci	ences						
Pro	gram:	BDS (Bachelor of Dental Surgery)					
1	Course Code	BDS 102					
2	Course Title	Bio Chemistry; General Human Physiology					
3	Credits	NA					
4	Contact Hours	120-0-60					
	(L-T-P)						
	Course Type	Compulsory (CORE)					
5	Course Objective	 To provide a sound but crisp knowledge on the biochemical basis of the life processes relevant to the human system and to dental/medical practice. The chemistry portion should strive towards providing information on the functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organise macromolecules. 					
6	Course Outcomes	CO102.1: Dental student with knowledge on normal functioning of all the organ systems and their interactions, relative contribution of each organ system towards the maintenance of total body function, physiological principles underlying the pathogenesis of various diseases and oral and para - oral structures. CO102.2: Dental student with basic skill to conduct and interpret experimental and investigative data CO102.3: Dental student with knowledge on biochemical agents related to dentistry, various micro and macro nutrients.					
7	Course Description	Students will be able to excel in their knowledge about the human body, its various organ systems, their compositions and functions. Students will also be efficient to determine and to undertake various investigatory lab procedures, biochemical analysis and advanced diagnostic procedures prevalent in the medical field.					

8	Outline syllabus	
	BDS102.A	Unit A
		CHEMISTRY OF BIOORGANIC MOLECULES

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		Beyond	
BDS102.A1	Unit A	Carbohydrates	
DDC102 A2	Topic 1	motoing	
BDS102.A2	Unit A Topic 2	proteins	
BDS102.A3	Unit A	Lipids	
DD3102.A3		Lipius	
BDS102.A4	Topic 3 Unit A	Nucleic Acids	
DDS102.A4	Topic 4	Nucleic Acids	
BDS102.B	Unit B		
DD5102.D			
	MACRO	NUTERIENTS AND DIGESTION, MICRONUTRIENTS	
BDS102.B1	Unit B	Energy needs: Basal metabolic rate	
	Topic 1		
BDS102 B2	Unit B	Enzymatic hydrolysis of dietary carbohydrates	
	Topic 2	, , , , , , , , , , , , , , , , , , , ,	
BDS102 B3	Unit B	Vitamins	
	Topic 3		
BDS102 B4	Unit B	Minerals	
· -	Topic 4		
BDS102 C	Unit C	•	
		METABOLISM	
BDS102 C1	Unit C	Overview: Outlines of glycolysis, pyruvate oxidation and citric	
	Topic 1	acid cycle.	
BDS102 C2	Unit C	CO102.1	
	Topic 2		
BDS102 C3	Unit C	Importance of pentose phosphate pathway. Formation of	
	Topic 3	glucuronic acid. Outlines of cholesterol synthesis and breakdown	
BDS102 C4	Unit C	DIOCHEMICAL CENETICS AND PROTEIN	
	Topic 4	BIOCHEMICAL GENETICS AND PROTEIN	
DDC102 CF	Unit C	SYNTHESIS	
BDS102 C5	Topic 5	ENZYME AND METABOLIC REGULATION	
	-		
BDS102 D	Unit D		
	STRUCT	TURAL COMPONENTS AND BLOOD PROTEINS	
BDS102 D1	Unit D	Connective Tissue	
	Topic 1		
BDS102 D2	Unit D	Haemoglobin	
	Topic 2		
BDS102 E	Unit E	<u> </u>	
<i>y</i> <u> </u>		L BIOCHEMISTRY	
BDS102 E1	Unit E	Pagulation of blood glucosa, Diabatas mollitus and related	
DD2107 E1	Topic 1	Regulation of blood glucose. Diabetes mellitus and related disorders	
BDS102 E2	Unit E	Liver function tests	
DD3107 F7		Liver function tests	
	Topic 2		

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chemical evaluation.
nd muscular dystrophy



		Attendance	Minimum 75% is Needed for both theory and clinical practical	
		Quizzes	Taken in every 3 months	
	Course	Presentations	Video Presentation	
1.	evaluation	Any Other	Project based learning, flip learning, Assignments, Webinars	
<i>γ γ γ γ γ γ γ γ γ γ</i>		Annual	Theory-100 Marks	
		examination		
			Text book of Physiology, 9th edition.	
		_	Review of Medical Physiology, 19th edition Vander; Human	
		physiology,		
		3. Choudhary; Concise Medical Physiology, 2nd edition Chaterjee; Human		
		Physiology,	10th edition	
2.	Text book/s*	4. A.K. Jain; Human Physiology for BDS students, 1st edition		
-	20110 200142	5 Concise	text book of Biochemistry (3 rd edition) 2001,	
			nal Biochemistry 1995,	
			· · · · · · · · · · · · · · · · · · ·	
			ok of Biochemistry with clinical correlations 1997,	
			nistry, 1996. R.K. Murray et.	
		Basic and appl	ied Dental Biochemistry, 1979, R.A.D.	
		TED learning		
3.	Other	EBSCOHOST		
3.	References	Various scienti	ific articles from	
		various sources	s	



2.1 Template A1: Syllabus

Sch	ool: School of Dental Sciences	Batch:202-25		
Pro	gram:	BDS (Bachelor of Dental Surgery)		
1	Course Code	BDS103		
2	Course Title	Dental Anatomy, Embryology & Oral Histology		
3	Credits			
4	Contact Hours	105-0-250		
	(L-T-P)			
	Course Status	Compulsory (CORE)		
5	Course Objective	 To make students learn about anatomy of teeth. To educate students about histology of oral tissues. To prepare students about understanding of clinical applications of teeth anatomy. To make students competent about understanding of clinical applications of oral histology. 		
6	Course Outcomes	CO103.1: At the end of the course, student is expected to appreciate the normal development, morphology, structure and function of oral tissues & variations in different pathological/non-pathological states. CO103.2: The student should understand the histological basis of various dental treatment procedures. CO103.3: The students must know the basic knowledge of physiologic ageing process in the dental tissues. CO103.4: Professional honesty and integrity are to be fostered		
7	Course Description	Under dental anatomy we make students thoroughly understand about anatomy of teeth. Under histology they are made aware of all the tissues in the oral cavity. We also teach them about basic embryology pertaining to oral tissues.		
8	Outline syllabus	1		



		Unit A	Tooth Morphology		
	BDS-103. A.1	Topic 1	Human dentition, types of teeth and functions, Tooth		
		_	numbering systems, To	ooth surfaces and their	
			junctions- line angles a	nd point angles. Definition of	
			terms used in dental m	orphology, geometric concepts	
			in tooth morphology, c	ontact areas and embrasures-	
			Clinical significance.		
	BDS-103. A.2	Topic 2	Morphology of decidud	ous & permanent teeth	
	BDS-103. A.3	Topic 3	Occlusion		
		Unit B	Oral Embryology		
	BDS-103. B.1	Topic 1	Brief Review of Develo	pment of face, jaws, lip, palate	
			and tongue with applie	ed aspects.	
	BDS-103. B.2	Topic 2	Development of teeth	with applied aspects.	
	BDS-103. B.3	Topic 3	Eruption of deciduous	and permanent teeth. Applied	
			aspect of eruption and	Shedding of teeth and its	
			complications		
		Unit C	Oral Histology of hard	tissues	
	BDS-103. C.1	Topic 1	Detailed microscopic st	tudy of enamel	
	BDS-103. C.2	Topic 2	Dentin, cementum		
	BDS-103. C.3	Topic 3	Alveolar bone, Tempo	romandibular joint	
		Unit D	Oral histology of soft t	issues	
	BDS-103. D.1	Topic 1	Pulp tissue Periodonta	-	
	BDS-103. D.2	Topic 2	Oral Mucosa, Salivary g		
	BDS-103. D.3	Topic 3	_	soft tissues for microscopic	
			studies		
		Unit E	Oral Physiology		
	BDS-103. E.1	Topic 1	Saliva, Mastication, De		
	BDS-103. E.2	Topic 2		nd Fluoride Metabolism	
	BDS-103. E.3	Topic 3		cation, Physiology of taste and	
	~		speech		
1.	Course	Attendance		eded for both theory and	
	Evaluation		clinical practical		
		Quizzes	Taken every 3 month	S	
		Presentations	Video presentations		
		Any other	Project based learning	g, assignments	
		Annual Examination	Theory	100 Marks	
			Practical	100 Marks	
		Attendance	Minimum 75% is nee	eded for both theory and	
			clinical practical		
2.		Text book/s*	Tencate, Orbans, Wh	eelers, James & Avery	
3.		Other References	LMS		
			TED learning		
			EBSCOHOST		
			Scientific articles		
			Webinars		



Course Templates – 2.1 Template A1: Syllabus for Theory Subjects

	Template A1. Synabus			
School: School of Dental		Batch: 2020-2025		
	ences			
Pro	gram:	BDS (Bachelor of Dental Surgery)		
1	Course Code	BDS201		
2	Course Title	General Pathology & Microbiology		
3	Credits	NA		
4	Contact Hours	120-0-105		
•	(L-T-P)	120 0 100		
	` ′	Compulsory (CODE)		
_	Course Type	Compulsory (CORE)		
5	Course Objective	 To demonstrate and apply basic facts, concepts and theories in the field of Pathology. 		
		 To recognize and analyze pathological changes at macroscopically and microscopical levels and explain their observations in terms of disease processes. 		
		3. To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.		
		 To demonstrate understanding of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research. 		
		5. Understand the basics of various branches of microbiology and able to apply the knowledge relevantly.		
		6. Have a sound understanding of various infectious diseases and lesions in the oral cavity.		
		7. To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.		
6	Course Outcomes	CO201.1 Dental student with knowledge on pathological changes at macroscopic and microscopic levels, capabilities and limitations of morphological pathology in its contribution to dentistry.		
		CO201.2 Dental student with an ability to integrate knowledge from the basic sciences to clinical application in dentistry.		
		CO201.3 Dental student with sound understanding of various infectious diseases and lesions in the oral cavity, various methods of Sterilisation and disinfection.		
		CO201.4 Dental student with basic skills to select, collect and transport clinical specimens to the laboratory and be able to carry out proper aseptic procedures in the dental clinic.		

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7 Course Description	At the end of the course the student should be competent to:		
	 Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry. Able to apply this knowledge in their clinical practice. 		
	 Apply the knowledge gained in related medical subjects like General Medicine and General Surgery and Dental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral Surgery, Pedodontics, Conservative Dentistry and Oral medicine in higher classes. Understand and practice various methods of Sterilisation and disinfection in dental clinics. 		

8	Outline syllabus		
	BDS-201 A	Unit A	
	BDS-201 A1	Topic 1	Introduction to Pathology, etiology and Pathogenesis of Disease. General Microbiology: - History, Introduction, Scope, Aims and Objectives. - Morphology and Physiology of bacteria. - Bacterial Genetics and Drug Resistance in bacteria.
	BDS-201 A2	Topic 2	Degenerations Amyloidosis, Fatty change, apoptosis, necrosis, gangrene, calcifications. Detail account of Sterlization and Disinfection. Brief account of Culture media and Culture techniques. Basic knowledge of selection, collection, transport, processing of clinical specimens and identification of bacteria
	BDS-201 A3	Topic 3	Inflammation - Definition, causes types, and features: Acute inflammation, chronic inflammation. Healing - Regeneration - Repair Bacterial Genetics and Drug Resistance in bacteria.
	BDS-201 B	Unit B	
	BDS-201 B1	Topic 1	Tuberculosis- (Epidemiology, Pathogenesis, Pathological features of Primary and secondary TB, complications and fate) Syphilis- (Epidemiology, types and stages of syphilis, Pathological features, diagnostic criteria, oral lesions)



		Typhoid- (Epidemiology, Pathogenesis, Pathological features, Diagnostic criteria)
		Immunology:
		- Infection - Definition, Classification,
		Source,
		- Mode of transmission and types of
		Infectious disease.
		ImmunityStructure and functions of Immune system
		- The Complement System
		- Antigen
		- Immunoglobulins - Antibodies - General
		structure and the role played in defense
		mechanism of the body.
		- Immune response
		 Antigen - Antibody reactions - with reference to clinical utility. Immuno deficiency disorders - a brief knowledge of
		various types of immunodeficiency disorders - A
		sound knowledge of immuno deficiency disorders
		relevant to dentistry.
		- Hypersensitivity reactions
		- Autoimmune disorders - Basic knowledge
		of various types - sound knowledge of
		autoimmune disorders of oral cavity and related structures.
		- Immunology of Transplantation and Malignancy
		- Immunehaematology
BDS-201 B2		Thrombosis, Embolism, Ischaemia and Infraction
	Topic 2	,
		Systematic bacteriology:
		- Pyogenic cocci - Staphylococcus, Streptococcus,
		Pneumococcus, Gonococcus,
		- Meningococcus— brief account of each coccus - detailed
		account of mode of spread, laboratory diagnosis, Chemo therapy
		and prevention - Detailed account of Cariogenic Streptococci.
		- Corynebacterium diphtheriae - mode of spread, important clinical feature, Laboratory diagnosis, Chemotherapy and Active
		immunisation.
		- Mycobacteria - Tuberculosis and Leprosy
		- Clostridium - Gas gangrene, food poisoning and tetanus.
		- Non-sporing Anaerobes - in brief about classification and
		morphology,
		- Spirochaetes - Treponema pallidum - detailed
		account of Oral Lesions of syphilis, - Borrelia vincentii.
		- Actinomycetes.

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		-
BDS-201 B3	Topic 3	Derangements of body fluids- Oedema Disorders of circulation - Hyperaemia - Shock
		 Virology: Introduction General properties, cultivation, host - virus interaction with special reference to Interferon. Brief account of Laboratory diagnosis, Chemotherapy and immuno prophylaxis in general. A few viruses of relevance to dentistry. Herpes Virus Hepatitis B Virus - brief about other types Human Immunodeficiency Virus (HIV) Mumps Virus Brief - Measles and Rubella Virus Bacteriophage - structure and significance
BDS-201 C	Unit C	
BDS-201 C1	Topic 1	Nutritional Disorders: Common Vitamin Deficiencies Mycology:
BDS-201 C2	Topic 2	- Brief Introduction Immunological mechanisms in disease - Humoral & cellular immunity - Hypersensitivity & autoimmunity AIDS and Hepatitis. Hypertension - Definition, classification - Pathophysiology - Effects in various organs Diabetes Mellitus - Def, Classification, Pathogenesis, Pathology in different organs Candidosis – in detail
BDS-201 C2	Topic 3	Adaptive disorders of growth - Atrophy & Hypertrophy, Hyperplasia, Metaplasia and Dysplasia

BDS-201 D	Unit D	
BDS-201 D1		2. General Aspects of neoplasia
	Topic 1	a. Definition, terminology, classification

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		b. Differences between benign and malignant neoplasms		
		c. The neoplastic cell		
		d. Metastasis		
		e. Aetiology and pathogenesis of neoplasia, carcinogenesis		
		f. Tumour biology		
		g. Oncogenes and anti-oncogenes		
		h. Diagnosis		
		i. Precancerous lesions		
		j. Common specific tumours, Sq papilloma & Ca, Basal cell		
		Ca, Adenoma & Adenoma, Fibroma & Fibrosarcoma,		
		Lipoma and liposarcoma		
		Parasitology:		
		Brief introduction - protozoans and helminths		
		Brief knowledge about the mode of transmission and prevention of commonly		
		seen parasitic infection in the region		
BDS-201 D2		Anaemias: Iron Deficiency anaemia, Megaloblastic anaemia		
	Topic 2	Leukemia: acute and chronic leukemia, diagnosis & clinical features		
BDS-201 D3		Diseases of Lymph nodes		
	Topic 3	- Hodgkin's disease,		
		- Non-Hodgkins lymphoma		
		- Metastatic carcinoma		
		Diseases of oral cavity		
		- Lichen planus, Stomatitis, Leukoplakia, Sq cell Ca, Dental		
		caries, Dentigerious cyst, Ameloblastoma		
		Diseases of salivary glands		
		- Normal structure, Sialadenitis, Tumours		

BDS-201 E	Unit E	
BDS-201 E1 BDS-201 E2	Topic 1 Topic 2	Common diseases of Bones - Osteomyelitis, Metabolic bone diseases, Bone Tumours, Osteosarcoma, Osteocalstoma, Giant cell Tumour, Ewing's sarcoma, Fibrous dysplasia, Aneurysmal bone cyst Diseases of Cardiovascular system - Cardiac failure - Congenital heart disease - ASD, VSD, PDA - Fallot's Tetrology - Infective Endocarditis - Atherosclerosis - Ischaemic heart disease
BDS-201 E3	Topic 3	Haemorrhagic disorders (coagulation cascade, coagulation disorders) Platelet function, platelet disorders



		Attenda	nce	Minimum 75% is Needed	for both theory and clinical practical
		Quizes		Taken in every 3 months	
		Presenta	ations	Video Presentation	
1.	Course evaluation	Any Otl	ner	Project based learning, fli	p learning, Assignments
			Theory &	100 Marks	
		Practica		100 Marks	
		Examin	ation	100 Marks	
			T		
		SR.	Author		Title
		1	Robbins		Pathologic Basis of Disease
		2	Ivan Dai	mjanov & James Linder	Anderson's Pathology Vol1&2 Edito
		3	Lee, Bithell, Foerster, Athens,		Wintrobe's clinical Haematology
			Lukens		
2.	Text book/s*	4	R.Anant Jayaram	hanarayan & C.K. Paniker	Text book of Microbiology
		5	David G	reenwood etal.	Medical Microbiology
		6	Prescott,etal Prescott		Microbiology
		7	Bernard	D. Davis, etal	Microbiology
		8	Barbara J Howard, etal.		Clinical & Pathogenic Microbiology
		9	Moselio	Schaechter, etal.	Mechanisms of Microbial diseases
		10	Tizard		Immunology an Introduction
		11	Evan Ro	itt et al.	Immunology 3 rd edition
3.	Other References				



Course Templates – Year 2 2.1 Template A1: Syllabus

Sch	nool: School of Dental	Batch: 2020-2025		
Sci	ences			
Pro	gram:	BDS (Bachelor of Dental Surgery)		
1	Course Code	BDS202		
2	Course Title	General & Dental Pharmacology and Therapeutics		
3	Credits	NA		
4	Contact Hours	070-0-020		
	(L-T-P)			
	Course Type	Compulsory (CORE)		
5	Course Objective	At the end of the course the student shall be able to:		
	-	Prescribe drugs for common dental and medical ailments.		
		2. To appreciate adverse reactions and drug interactions of commonly used drugs.		
		3. Observe experiments designed for study of effects of drugs.		
		4. Critically evaluate drug formulations and be able to interpret the clinical		
		pharmacology of marketed preparations commonly used in dentistry.		
		5. INTEGRATION: Practical knowledge of use of drugs in clinical practice will be		
		acquired through integrated teaching with clinical departments.		
6	Course Outcomes	CO 202.1 Dental student with knowledge on indications		
		contraindications interactions, allergies and adverse reactions of commonly		
		used drugs, use of appropriate drugs in disease with consideration to its		
		efficacy, safety for individual and mass therapy needs		
		CO 202.2 Dental student with an ability to advice special care in prescribing		
		common and essential drugs in special medical situations such as		
		pregnancy, lactation old age, renal, hepatic damage and immune		
		compromised patients		
		CO202.3 Dental student with skills to prescribe drugs for common dental		
		and medical ailments appreciate adverse reactions and drug interactions of		
		commonly used drugs		
7	Course Description	The broad goal of teaching under graduate students in pharmacology is to inculcate		
	_	rational and scientific basis of therapeutics keeping in view of dental curriculum and		
		Profession.		

8	Outline syllab	ous	
	BDS 202 A Unit A G		NERAL PHARMACOLOGY
	BDS 202 A1	Unit A Topic 1	General principles of pharmacology; sources and nature of drugs dosage forms; prescription writing; pharmacokinetics (absorption, distribution, metabolism and excretion of drugs), mode of action of drugs, combined effects of drugs, receptor mechanism of drug action, factors modifying drug response, adverse drug reactions; drug interactions, Implications of General Principles in clinical dentistry.
	BDS 202 A2	Unit A Topic 2	CNS drugs; General anaesthetics, hypnotics, analgesics psychotropic drugs, anti – epileptics, muscle relaxants, local anaesthetics, Implications of these drugs in clinical dentistry.

		Beyond Bounds		
BDS 202 A3	Unit A	Autonomic drugs; sympathomimetics, antiadrenergic		
	Topic 3	drugsparasympothomimetics and parasympatholytics, Implications of		
		Autonomic drugs in clinical dentistry		
BDS 202 A4	Unit A	Cardiovascular drugs; Cardiac stimulants; antihypertensive drugs,		
	Topic 4	vasopressor agents, treatment of shock, Antianginal agents and		
		diuretics, Implications of these drugs in clinical dentistry.		
BDS 202 A5	Unit A	Autocoids:		
	Topic 5	Histamine, antihistamines, prostaglandins, leukotriens and		
	_	bronchodilators, Implications of Autocoids in clinical dentistry.		
BDS 202 A6	Unit A	G.I.T. Drugs, Purgatives, anti-diarrhoeal, antacids, anti-emetics, Implications		
	Topic 6	of these drugs in clinical dentistry.		
BDS 202 A7	Unit A	Endocrines; Emphasis on treatment of diabetes and glucocorticoids, thyroid		
	Topic 7	and antithyroid agents, drugs affecting calcium balance and anabolic		
	_	steroids, Implications of these drugs in clinical dentistry.		
BDS 202 A8	Unit A	Chemotherapy: Antimicrobial agents (against bacteria, anaerobic infections,		
	Topic 8	fungi, virus and broad spectrum). Infection management in dentistry.		
		Phamacotherapy of Tuberculosis, leprosy and chemotherapy of malignancy		
		in general. Implications of Chemotherpy in clinical dentistry.		
BDS 202 A9	Unit A	Chemotherapy: Antimicrobial agents (against bacteria, anaerobic infections,		
	Topic 9	fungi, virus and broad spectrum). Infection management in dentistry.		
	_	Phamacotherapy of Tuberculosis, leprosy and chemotherapy of malignancy		
		in general. Implications of Chemotherpy in clinical dentistry.		
BDS 202	Unit A	Vitamins: Water soluble vitamins, Vit. D, Vit.K. and Vit. E, Implications of		
A10	Topic 10	Vitamins in clinical dentistry.		
BDS 202	Unit A	Pharmacotherapy of emergencies in dental office and emergency drugs tray		
A11	Topic 11	Implications of Pharmacotherapy in clinical dentistry.		
BDS 202	Unit A	Chealating agents – BAL, EDTA and desferrioxamine,		
A12	Topic 12			

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BDS 202 B	Unit B D	Jnit B DENTAL PHARMACOLOGY				
BDS 202 B1	Unit B Topic 1	Anti - septics, astrigents, obtundents, mummifying agents, bleaching agents, styptics, disclosing agents, dentifrices, mouth washes, caries and fluorides.				
BDS 202 B2	Unit B Topic 2	Pharmacotherapy of common Oral conditions in dentistry, Practical's & Demonstrations				

		Attendance	Minimum 75% is Needed for both theory and clinical practical
1		Quizzes	Taken in every 3 months
1	Course evaluation	Presentations	Video Presentation
•		Any Other	Project based learning, Assignments
		Annual	Theory-100 marks
		examination	Practical-100 marks
2 .	Text book/s*	Pharmac Prakash 2. Bertam Appleto 3. Laueren Livingst 4. Satoska Pharmac Prakash	oskar, Kale Bhandarkar's Pharmacology and colherapentics, 10th Edition, Bombay Popular an 1991. G Katzung, Basic and Clinical pharmacology 6th ed. on & Lange 1997. ICC D.R. Clinical Pharmacology 8th ed. Churchill tone 1997. ICC R.S. & Bhandarkar S.D., Pharmacology and cotherapeutics part I & part ii, 13th Popular an Bombay 1993. K.D., Essentials of Medical Pharmacology 4 th ed Jaypee
<u></u>		Brothers	s 1999.
3	Other References	TED learning	
•		various scientific	articles from various sources



Course Templates –
2.1 Template A1: Syllabus for Theory Subjects (SAMPLE)

		Tor Theory Subjects (SAMPLE)		
	nool: School of Dental	Batch: 2020-2025		
	ences			
	gram:	BDS (Bachelor of Dental Surgery)		
Bra	anch:	Dental		
1	Course Code	BDS-203		
2	Course Title	DENTAL MATERIALS		
3	Credits	NA		
4	Contact Hours	80-0-240		
	(L-T-P)			
	Course Type	Compulsory (CORE)		
5	Course Objective	 To understand the evolution and development of science of dental material. To explain purpose of course in dental materials to personnel concerned with the profession of the dentistry. Knowledge of physical, chemical properties and biomechanical requirements of particular restorative procedure. Search for newer and better materials to answer daily requirements 		
		 with greater satisfaction. 4. To understand and evaluate the claims made by manufactures of dental materials. 5. To present basic chemical and physical properties of Dental materials as they are related to its manipulation to give a sound educational background so that the practice of the dentistry emerged from art to empirical status of science as more information through further research becomes available 		
6	Course Outcomes	CO203.1- Dental student will have knowledge of physical/chemical/biological & mechanical properties of all materials in dentistry. CO203.2- Dental students will be able to manipulate the various dental materials in dentistry.		
7	Course Description	The course offers knowledge of diagnosis and basic chemical and physical properties of Dental materials as they are related to its manipulation to give a sound educational background so that the practice of the dentistry emerged from art to empirical status of science as more information through further research becomes available. It also aims to provide with certain criteria of selection and which will enable to discriminate between facts and propaganda with regards to claims of manufactures.		



8	Outline syllab	ous	Beyond Boundari
	BDS-203.A	Unit A	
	Structure of m		natter and principles of adhesion
	BDS-203.A1 Unit A		Change of state
		Topic 1	
	BDS-203.A2	Unit A	Interatomic bond distance and bonding energy
		Topic 2	
	BDS.203.A3 Unit A Topic 3		Crystalline and non crystalline structures
	BDS-203.B	Unit B	
		Important ph	ysical properties applicable to dental materials
	BDS-203.B1	Unit B	Physical properties –law of mechanics, acoustics, optics,
		Topic 1	thermodynamics, electricity, magnetism, radiation
	BDS-203. B2	Unit B	Hue, value, chroma and translucency- law of optics, dealing with
		Topic 2	phenomenon of light, vision and sight.
	BDS-203. B3	Unit B	Thermal conductivity, COTE
		Topic 3	
	BDS-203.B4	Unit B	Stress, strain, proportional limit, elastic limit, yield strength, MOE,
		Topic 4	ductility, malleability, hardness, rheology, abrasion resistance,
			thixotropic, creep, static creep, dynamic creep, Munsell color system,
			metamerism, fluoroscence
	BDS-203 C	Unit C	
		Biological cor	siderations in use of dental materials
	BDS-203.C1	Unit C	Biocompatibility of dental materials, its classification based on contact
		Topic 1	with soft tissues, affecting vitality of pulp, used for root canal fillings
			affecting hard tissues of teeth
	BDS-203.C2	Unit C	Hazards associated with materials, pH affecting pulp, polymers
		Topic 2	causing chemical irritation, mercury toxicity
	BDS-203.C3	Unit C	Microleakage, thermal changes, galvanism, toxic effect of materials,
		Topic 3	biological evaluation for systemic toxicity
	BDS-203 D	Unit D	
		GYPSUM ANI	D GYPSUM PRODUC
	BDS-203 D1	Unit D	GYPSUM- Origin, chemical formulae, products manufactured from
	BB S 203 B1	Topic 1	gypsum, dental plaster, dental stone, die stone, high strength, high
		Торке т	expansion stone (Application and manufacturing of each, Macroscopic
			and microscopic structure of each.
	BDS-203 D2	Unit D	Chemistry of setting, setting reaction, theories of setting, gauging
	222 200 22	Topic 2	water.
	BDS-203 D3	Unit D	Setting time, working time, measurement of setting time and factors
		Topic 3	controlling setting time.
	BDS-203 D4	Unit D	Strength, factors affecting strength: wet strength, dry strength, tensile
		Topic 4	strength.
	BDS-203 D5	Unit D	Slurry: Need & Use.
		Topic 5	
		_	

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		Beyond Boundari
BDS-203 D6	Unit D	Care of Cast
	Topic 6	
BDS-203 D7	Unit D	ADA Classification of Gypsum Products.
	Topic 7	71
BDS-203 D8	Unit D	Manipulation including recent methods and advanced methods.
	Topic 8	The state of the s
BDS-203 D9	Unit D	Disinfection: Infection Control, liquid, sprays, radiation methods, use
DD5-203 D7	Topic 9	of disinfectants, storage of materials.
BDS-203 E	Unit E	of distinctuits, storage of materials.
DDS-203 E		MATERIALS USED IN DENTISTRY
BDS-203 E1	Unit E	Impression Plaster, Impression compound, Zinc Oxide Eugenol Paste,
DD5-203 E1	Topic 1	Bite Registration Paste, Non- Eugenol Paste, Hydrocolloids
	Topic 1	(Reversible and Irreversible)
BDS-203E2	Unit E	Elastomeric impression materials, polysulphide, condensation
DDS-203E2		
DDC 202 E2	Topic 2	silicones, addition silicones, polyether
BDS-203.E3	Unit E	Visible light cure polyurethane dimethacrylate
DDG 202 F4	Topic 3	
BDS-203.E4	Unit E	Historical background, definition, purpose, ideal properties,
	Topic 4	application, composition, setting chemistry, recent advances
BDS-203.E5	Unit E	Study of properties: working time, setting time, flow, accuracy,
	Topic 5	strength, flexibility, tear strength, dimensional stability, biological
		properties, shelf life, infection control,
BDS 203 F	Unit F	
	Synthetic	
	Resins	
	Unit F	Acrylic resins
	Topic 1	
	Unit F	Restorative resins
	Topic 2	
BDS 203 G	Unit G Metal a	and Allovs
	Unit G Topic	Amalgam
	1	
	Unit G Topic	Direct filling Gold
	2	
	Unit G Topic	Dental Casting Alloys
	3	2 onto Customing 1 mo ye
BDS 203 H		Waxes Including Inlay Casting Wax
DDS 203 H	Unit H Topic	Introduction, classification, properties, Dental waxes, manipulation,
	1	applications
BDS 203 I		Casting Investments
DDS 203 I	Unit I Topic 1	Definition, classification, Technical considerations, Defects in casting
BDS 203 J	-	oldering, Brazing and Welding
DDS 203 J		
DDC 202 IZ	Unit J Topic 1	Definitions, requirements, applications, properties
BDS 203 K		ht Base Metal Alloys
	Unit K Topic	Applications, properties
	1	



DDG 202 7		Beyond Boundari
BDS 203 L	Unit L I	Dental Cements
	Unit L Topic	Definition, requirements, properties
	1	
BDS 203 M	Unit M I	Dental Ceramics
	Unit M Topic	Definitions, Applications, Properties, Composition
	1	
BDS 203 N	Unit N A	brasion and Polishing Agents
	Unit N Topic	Definition, types,
	1	
	Unit N Topic	Abrasive action, Technical considerations
	2	
BDS 203 O	Unit O Die	e and Counter Die materials including Electroforming and
	Electropolishin	ng
	Unit O Topic	Types of gypsum products, electroforming, Epoxy resins, Amalgam
	1	
BDS 203 P	Unit P D	ental implants
	Unit O Topic	Evolution, Types, materials
	1	
BDS 203 Q	Unit Q Mechanics of Cutting	
	Unit Q Topic	Burs, points
	1	

		Attendance	Minimum 75% is Needed for practical	or both theory and clinical
		Quizzes	Taken in every 3 months	
1.	Course evaluation	Presentations	Video Presentation	
		Any Other	Project based learning, flip	learning, Assignments
		Annual Exam	100 Marks Theory	
			100 Marks Practical	
2.	Text book/s*	 Phillips Science of Dental Materials – 10th edition Restorative Dental Materials Notes on Dental Materials 		Kenneth J. Anusavice Robert G.Craig Notes on Dental Materials
3.	Other References TED learnin EBSCOHOS Various scie sources		e articles from various	



2.1 Template A1: Syllabus

	C.I. a.l. C.I. a.l. C.D. a.d. D. a.d. 2020 2025		
School: School of Dental		Batch: 2020-2025	
Sciences			
Program:		BDS (Bachelor of Dental Surgery)	
Bra	nch:	Dental	
1	Course Code	BDS-251	
2	Course Title	PRE-CLINICAL PROSTHODONTICS	
3	Credits	NA	
4	Contact Hours	25-0-300	
	(L-T-P)		
	Course Type	Compulsory (CORE)	
5 Course Objective		1: To introduce students to laboratory and clinical procedures involved in the fabrication of complete dentures in preclinical settings and provide opportunity for deliberate practice.	
6	6 Course Outcomes CO251.1 Dental student will have sound knowledge on landma edentulous patients and would be able to do all lab procedu make a conventional complete denture.		
7	Course Description	The course offers Knowledge of all procedures to be performed in the clinical appointments in coming years. The Students are given hands-on training on ideal models for practice and learning.	

8	Outline syllabus		
	BDS- 251.A TEETH ARI		RANGEMENT SCHEDULE
	BDS- Unit A 251.A1 Topic 1		Fabrication of Record Base
	BDS- Unit A 251.A2 Topic 2		Fabrication of Occlusal Rims
	BDS.251. Unit A A3 Topic 3		Articulation
	BDS- Unit A 251.A4 Topic 4 BDS- Unit A 251.A5 Topic 5		Anterior Teeth Arrangement
			Posterior Teeth Arrangement

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		Beyond Bound
BDS.251. Unit A Fabrication of Occlusal Rims		Fabrication of Occlusal Rims
A6 Topic 6		
BDS- Unit A 1 st Teeth Arrangement		1 st Teeth Arrangement
251.A7	Topic 7	
BDS-	Unit A	2 nd Teeth Arrangement
251.A8	Topic 8	
BDS.251.	Unit A	3 rd Teeth Arrangement
A9	Topic 9	
BDS-	Unit A	4 th Teeth Arrangement
251.A10	Topic 10	
BDS-	Unit A	5 th Teeth Arrangement
251.A11	Topic 11	
BDS.251.	Unit A	6 th teeth Arrangement
A12	Topic 12	
BDS-	Unit A	8 th teeth Arrangement
251.A13	Topic 13	
BDS-	Unit A	9 th Teeth Arrangement
251.A14 Topic 14 BDS.251. Unit A 10 th teeth Arrangement A15 Topic 15		
		10 th teeth Arrangement
BDS-	Unit A	11 th Teeth Arrangement
251.A16	Topic16	

		Attendance	Minimum 75% is Needed for both theory and clinical practical	
		Quizzes	Taken in every 3 months	
1.	Course evaluation	Presentations	Video Presentation	
		Any Other	Project based learning, flip	learning, Assignments
		Annual Examination	100 Marks	
2.	Text book/s*	Essentials of Complete Prosthodontics		Sheldon Winkler
3.	Other References	TED learning EBSCOHOST Various scientific articles from various sources		



Course Templates – 2.1 Template A1: Syllabus

School: School of Dental		Batch: 2020-2025	
Sciences		2 2020 2020	
Program:		BDS (Bachelor of Dental Surgery)	
		BDS252	
2	Course Title		
3	Credits	NA	
4 Contact Hours		025-0-200	
	(L-T-P)		
	Course Type	Compulsory (CORE)	
5	Course Objective	1: Students are introduced to the pre-clinical conservative dentistry to make them more acquainted to the new dental subject. Students are told about this branch of dentistry, what it deals in & what benefits we can provide to patients after rendering treatment. 2: Students are provided with knowledge to diagnose dental caries and skilled to treat it. 3: Students are geared to maintain high standard of professional ethics and conduct and apply it willingly in all aspects of professional life	
6	Course Outcomes	CO252.1: Students will have sound knowledge on hand and rotary cutting instruments CO252.2 Students have basic skills to prepare cavity designs to receive various restorative materials on typhodont.	
7	Course Description	The Pre-Clinical Conservative training program offers students to apply knowledge, skill and ethics in day to day practice. Students gear to have sound knowledge of the hand and rotary cutting instruments and know their application. Students are able to correctly diagnose all caries lesions and have knowledge to manage it. They are skilled to analyse the outcomes of treatment. Students are capable of self- assessment in the end of the program and are confident and competent to accomplish and execute the knowledge and skills for managing the patient in clinics.	



8 Outline syllab	ous		
BDS252.A	Unit A		
	Introduction	n to Conservative Dentistry	
BDS252.A1	Unit A	Nomenclature	
	Topic 1		
BDS252.A2	Unit A	Fundamental	
	Topic 2		
BDS252A3	Unit A	Contacts & Contour	
	Topic 3		
BDS252.B	Unit B		
	Caries and	Its Management	
BDS252.B1	Unit B	Dental Caries	
	Topic 1		
BDS252 B2	Unit B	Management of Deep caries	
	Topic 2		
BDS252 B3	Unit B	Pulp Protection	
	Topic 3		
BDS252C	Unit C		
	Fundament	ls of Amalgam Restoration	
BDS252 C1	Unit C	Tooth Preparation for amalgam	
	Topic 1		
BDS252 C2	Unit C	Dental cements	
	Topic 2		
BDS252 C3	Unit C	Failures of amalgam restoration	
	Topic 3		

BDS252 D	Unit D	nit D	
	Isolation Co	oncepts and Barrier Techniques	
BDS252 D1	Unit D	Concepts of Isolation	
	Topic 1		
BDS252 D2	Unit D	Barrier Techniques	
	Topic 2		
BDS252 D3	Unit D	Basic concept of Sterilization	
	Topic 3		
BDS252 E		·	
BDS252 E1	Unit E	Concepts of RCT in Single rooted tooth	
	Topic 1		
BDS252 E2	Unit E	Introduction to Cl I Composites restoration	
	Topic 2		
BDS252 E3	Unit E	Finishing & Polishing	
	Topic 3		



	Course evaluation	Attendance
		Quizzes
1.		Presentations
		Any Other
		Annual Examination
	Text book/s*	Pre-Clinical Conservative Dentistry
2.		2. Text Book of Conservative Dentistry
	Other References	LMS
3.		TED learning
		EBSCOHOST
		Various scientific articles from various sources



Sc	hool:	School of Dental Sciences		
Pr	ogram:	BDS (Bachelor of Dental Surgery)		
Ba	itch	2020-25		
1	Course	BDS301		
	Code			
2	Course	GENERAL MEDICINE		
	Title			
3	Credits	NA		
4	Contact	60 - 0 - 90		
	Hours			
	(L-T-P)			
	Course	Compulsory (CORE)		
	Type			
5	Course	Tuoining the student form		
	Objective	Training the student for:		
		• General superficial examination of the body and recording all the necessary vitals.		
		To correlate various oral manifestations with systemic conditions.		
		 Deal with various medical emergencies in dental practice. 		
		Dear with various medical emergencies in dental practice.		
6	Course	CO301.1Dental student with sound knowledge on oral manifestations of systemic diseases,		
	Outcomes	medical emergencies in dental practice. special precautions/ contraindication of aesthesia		
		CO301.2Dental students with ability to diagnose and manage various common medical		
		problems encountered in general, dental practice and dental emergencies.		
		CO301.3Dental student with basic skill to prevent and manage complications encountered		
		while carrying out various dental surgical and other procedures		

BDS301.A	Unit A			
	Introduction to general medicine			
BDS301.A1	Unit A	Aims of medicine, definition of Signs & Symptoms.		
	Topic 1			
BDS301.A2	Unit A	Diagnosis and its types.		
	Topic 2	Treatment		
BDS301.B	Unit B			
	Infections	Infections		
BDS301.B1	Unit B Enteric fever, AIDS, Herpes Simplex, Herpes Zoster,			
	Topic 1	pic 1		
BDS301 B2	Unit B	nit B Syphilis, Diphtheria, Infectious mononucleosis		
	Topic 2	2		



BDS301 B3	Unit B	Mumps, Measles, Rubella, Malaria.	
	Topic 3		
BDS301 C	Unit C		
	Systemic I	Medicine	
BDS301 C1	Unit C	GIT- Stomatitis, gingival hyperplasia, dysphagia, acid peptic disease, jaundice,	
	Topic 1	acute and chronic hepatitis, cirrhosis of liver ascites.	
BDS301 C2	Unit C	CVS- Acute rheumatic fever rheumatic valvular heart disease, hypertensis	
	Topic 2	ischemic heart disease, infective endocarditis, common arrhythmias, congenital	
		heart disease, congestive cardiac failure.	
BDS301 C3	Unit C	Respiratory System- Pneumonia, COPD, Pulmonary TB, Bronehial Asthma	
	Topic 3		

BDS301 C4	Unit C	Renal System- Acute nephritis Nephrotic syndrome		
	Topic 4			
BDS301 C5	Unit C	CNS- Facial palsy, facial pain including trigeminal neuralgia, epilepsy, headache		
	Topic 5	including migraine.		
BDS301 D	Unit D			
	Hematolo	matology		
BDS301 D1	Unit D	Anemias, Bleeding & Clotting disorders,		
	Topic 1			
BDS301 D2	Unit D	leukemias, lymphomas, agranulocytosis, splenomegaly,		
	Topic 2			
BDS301 D3	Unit D	Oral manifestations of hematologic disorders, generalized Lymphadenopathy.		
	Topic 3			

BDS301 E	Unit E		
	Nutrition		
BDS301 E1	Unit E	Macro and Micro Nutrients	
	Topic 1		
BDS301 E2	Unit E	Deficiency disorders	
	Topic 2		
BDS301 F	Unit F		
	Endocrine	es	
BDS301 F1	Unit F	Diabetes Mellitus Acromegaly, Hypothyroidism,	
	Topic 1		
BDS301 F2	Unit F	Thyrotoxicosis, Calcium metabolism and Parathyroids.	
	Topic 2		
BDS301 G	Unit G		
	Critical Care		
BDS301 G1	Unit G	Syncope, cardiac arrest, CPR, shock	
	Topic 1		



	Course evaluation	Attendance		
		Quizzes		
1.		Presentations		
		Any Other		
		Annual Examination		
2	Text book/s*	Text Book of Medicine		
2.		2. Textbook of Medicine		
	Other References	LMS		
3.		TED learning		
3.		EBSCOHOST		
		Various scientific articles from various sources		



2.1 Template A1: Syllabus

School:		School of Dental Sciences		
Pro	ogram:	BDS (Bachelor of Dental Surgery)		
Bat	<u> </u>	2020-25		
1	Course Code	BDS302		
2	Course Title	GENERAL SURGERY		
3	Credits	NA		
4	Contact Hours	60 - 0 - 90		
	(L-T-P)			
	Course Type	Compulsory (CORE)		
5	Course Objective	• To acquaint the student with various diseases, which may require surgical expertise and to train the student to analyze the history and be able to do a thorough physical examination of the patient. Student will have a good theoretical knowledge of various ailments, and be practically trained to differentiate benign and malignant diseases and be able to decide which patient requires further evaluation.		
6	Course Outcomes	CO302.1Dental student with sound surgical knowledge on anomalies, lesions and diseases of the teeth, mouth and jaws CO302.2Dental student with ability to diagnose and manage various common surgical problems encountered in general, dental practice and dental emergencies.		
7 Course Description		Understanding various diseases, that may require surgical expertise and training to do thorough examination. The diseases as related to head and neck region are to be given due importance, at the same time other relevant surgical problems are also to be addressed. Thorough knowledge of various ailments, benign and malignant diseases both related to oral and systemic health. Skills to be developed by the end of teaching are to examine a routine swelling, ulcer and other related diseases and to perform minor surgical procedures such as draining an abscess, taking a biopsy etc.		



Outline sylla	abus	Beyond Boun		
BDS302.A Unit A				
		ion to general surgery		
BDS302.A1	Unit A	History of Surgery		
	Topic 1			
BDS302.A2	Unit A	General Principles of Surgery		
	Topic 2			
BDS302.B	Unit B			
	Wounds			
BDS302.B1	Unit B	Classification		
	Topic 1	Wound Healing		
BDS-302.	Unit B	Repair of Wounds		
B2 Topic 2		Treatment of Wounds		
		Complications of Wounds.		
BDS302.B3	Unit B	Medico-Legal Aspects of Accidental Wounds		
	Topic 3			
BDS-302. C	Unit C	•		
	Inflamma	ation & Infection		
BDS302.C1	Unit C	Inflammation of Soft and Hard Tissues.		
Topic 1		Causes of Inflammation.		
BDS302.C2 Unit C		Varieties, Treatment and Sequelae		
Topic 2				
BDS302.C3	Unit C	Acute and Chronic Abscess Skin Infections, Cellulitis, Carbuncle, and		
	Topic 3	Erysepelas.		

BDS302.C4	Unit C	Specific Infections Such As Tetanus, Gangrene, Syphilis, Gonorrhoea,		
	Topic 4	Tuberculosis, Actinomycosis, Vincents Angina, Cancrum Oris.		
BDS302.C5	Unit C	Pyaemia, Toxaemia and Septicaemia		
	Topic 5			
BDS302.D	Unit D	Unit D		
	Viral Infe	ctions		
BDS302.D1	Unit D Topic 1	HIV and Hepatitis B with special reference to their prevention and precautions to be taken in treating patients in a carrier state.		



BDS302. E	Unit E Shock and Haemorrhage		
BDS302.E1	Unit E	Classification, causes, clinical features and management of various	
DD5302.E1		types of shock.	
DDC202 E2	Topic 1	V1	
BDS302.E2	Unit E	Syncope, Circulatory collapse. Haemorrhage – different types,	
DDC202 F2	Topic 2	causes, clinical features and management	
BDS302.E3	Unit E	Blood groups, blood transfusion, precautions and complications of	
	Topic 3	blood and their products. Hemophilia's, their transmission, clinical	
		features and management especially in relation to minor dental	
DDC202 E4	TT '/ E	procedures.	
BDS302.E4	Unit E	Hemophilia's, their transmission, clinical features and management	
DD 0000 D	Topic 4	especially in relation to minor dental procedures.	
BDS302.F	Unit F		
		s, Ulcers, Cysts, Sinus and Fistulae	
BDS302. F1	Unit F	Classification, clinical examination and treatment principles in various	
	Topic 1	types of benign and malignant tumours.	
BDS302.F2	Unit F	Classification, clinical examination and treatment principles in various	
	Topic 2	types of ulcers, cysts, sinus and fistulae.	
BDS302. G	Unit G		
		of Lymphatic System	
BDS302.G1	Unit G Topic 1	Head and Neck Region, Tubercular Infection, Lymphomas,	
	Leukaemia's, Metastatic Lymph Node Diseases.		
BDS302. H	Unit H		
		of The Oral Cavity, Larynx, Nasopharynx	
BDS302.H1	Unit H	Infective and malignant diseases of the oral cavity and	
	Topic 1	oropharynx and salivary glands,	
BDS302.H2	Unit H	Preventive aspects of premalignant and malignant diseases of	
	Topic 2	the oral cavity.	
BDS302.H3	Unit H	Infections and tumours affecting these sites. Indications,	
555555	Topic 3	procedure and complications of tracheostomy	
BDS302.I	Unit I	procedure and complications of tracheostomy	
DD 5502.1	Nervous	System	
BDS302. I1	Unit I	Peripheral nerve injuries and related surgical procedures.	
22002.11	Topic 1	To reprietar nor to injuries and related surgical procedures.	
BDS302.I2	Unit I	Facial and Trigeminal Nerve.	
Topic 2		raciai and rrigenimai iverve.	
BDS302.J	Unit J		
DD 5502.3	Fracture		
BDS-302. J1	Unit J	Principles and Clinical Presentation	
Topic 1		Timospies and Chinear Freschation	
	_		
BDS302. J2 Unit J Treatment and Healing		Treatment and Healing	
	Topic 2		



BDS302. K	Unit K		
	Principles of Surgery		
BDS302.K1	Unit K	Principles, Asepsis, Antiseptics, Sterilisation,	
	Topic 1		
BDS302.K2	Unit K	Principles of anaesthesia and principles of tissue replacement.	
	Topic 2	Knowledge of sutures, drains,	
BDS302.K3	Unit K	Diathermy, cryosurgery and use of Laser in surgery.	
	Topic 3		
BDS302.L	Unit L		
	Anomalies of Face and Jaw		
BDS302. L1 Unit L Surgical anatomy and development of face. Clef		Surgical anatomy and development of face. Cleft lip and cleft palate—	
	Topic 1	principles of management.	
BDS302.L2	DS302.L2 Unit L Differential diagnosis and management of different types		
	Topic 2	the jaw.	
BDS302.M	Unit M		
	Biopsy		
BDS302. M1	Unit M	Different types of biopsies routinely used in surgical practice.	
	Topic 1		
BDS302. N2	302. N2 Unit N		
	Thyroid and Parathyroid		
BDS302. N1	Unit N	Surgical anatomy, pathogenesis, clinical features and management	
	Topic 1	of dysfunction of thyroid and parathyroid glands.	



		Attendance	Minimum 75% is Needed for both theory and clinical practical	
		Quizzes	Taken in every 3 months	
1.	Course	Presentations	Video Presentation	
1.	evaluation	Any Other	Assignments	
		Annual	Theory - 100 Marks	
		examination	Practical – 100 Marks	
2.	Text book/s*	3. Short practice of surgery		Bailey & Love
		LMS		
	Other References	TED learning		
3.		EBSCOHOST		
		Various scientifi	ic articles from various	
		sources		



2.1 Template A1: Syllabus

School: School of Dental		of Dental	Batch:2020-25
Sc	iences		
Pr	ogram:		BDS (Bachelor of Dental Surgery)
1		Course Code	BDS303
2		Course Title	Oral Pathology & Oral Microbiology
3		Credits	NA
4		Contact Hours	145-0-80
		(L-T-P)	
		Course Status	Compulsory
5		Course	1. To make students learn about various types of diseases occurring in the
		Objective	oral cavity.
			2. To educate students about the diagnosis of oral diseases.
			3. To make students understand about the correlation of clinical signs &
			symptoms with pathological processes in the oral cavity.
			4. To make students competent about identification of oral diseases
			through microscopic features.
			5. To make students aware about basic aspects of Forensic Odontology.
6		Course	CO303.1: At the end of the oral pathology course, student should be able
		Outcomes	to comprehend different types of pathologies in the oral cavity.
			CO303.2: The student should understand manifestations of common
			diseases, their diagnosis & pathogenesis.
			CO303.3 : Student should also be able to understand oral manifestations of
			systemic diseases.
			CO303.4: Student should know basic aspects of Forensic Odontology.
			CO303.5: Professional honesty and integrity are to be fostered.
7		Course	Oral Pathology represents the confluence of basic sciences and clinical
'		Description	dentistry. Knowledge of the subject is acquired through gross &
		Description	microscopic examination of tissues, along with information obtained from
			clinical history of the patients. Through the science of Oral Pathology, an
			attempt is made to correlate human biology with signs & symptoms of the
			disease so that it can be properly diagnosed & adequately treated.
			and the can be properly diagnosed to deequately fromed.
8	· · · · · · · · · · · · · · · · · · ·		
	Unit A		Developmental disturbances of oral cavity & Forensic Odontology
	BDS-	Topic 1	Developmental disturbances of oral & paraoral structures and forensic
	303.A.1		odontology
	BDS-303.	Topic2	Benign & malignant tumors of the oral cavity & salivary glands
	A.2		
	BDS-303.	Topic3	Cysts & tumors of odontogenic origin
	A.3		
		Unit B	Diseases of microbial origin
	BDS-303.	Topic1	Bacterial, viral & mycotic infections of the oral cavity



			Beyond Boundaries
	B.1		
	BDS-303. B.2	Topic2	Diseases of periodontium & dental caries
	BDS-303. B.3	Topic3	Diseases of pulp & periapical tissues & spread of oral infections
	Unit C		Injuries & repair
	BDS-303. C.1	Topic1	Physical & chemical injuries of the oral cavity
	BDS-303. C.2	Topic2	Regressive alterations of teeth
	BDS-303. C.3	Topic3	Healing of oral wounds
		Unit D	Disturbances of metabolism & immunologic diseases
	BDS-303. D.1	Topic1	Oral aspects of metabolic diseases
	BDS-303. D.2	Topic2	Allergic & immunologic diseases of the oral cavity
	BDS-303. D.3	Topic3	Diseases of blood & blood forming organs
		Unit E	Diseases of specific systems
	BDS-303. E.1	Topic1	Diseases of bone & joints
	BDS-303. E.2	Topic2	Diseases of skin
	BDS-303. E.3	Topic3	Diseases of nerves & muscles
1	Course	Attendance	Minimum 75% is needed for both theory and clinical practical
	Evaluation	Quizzes	Taken every 3 months
		Presentations	Video presentations
		Any other	Project based learning, assignments
		Annual	Theory
		Examination	Practical
2		Text book/s*	Shafer's, Neville, Regezi, Cawson, Soames & Southam, Eversole
3		Other	LMS
		References	TED learning
			EBSCOHOST Scientific articles
			Scientific articles Webinars
			Webliais



School:		School of Dental Sciences		
Program:		BDS (Bachelor of Dental Surgery)		
Bat	ch	2020-25		
1	Course Code	BDS401		
2	Course Title	Public Health Dentistry		
3	Credits	NA		
4	Contact Hours	60 - 0 - 290		
	(L-T-P)			
	Course Type	Compulsory (CORE)		
5	Course Objectives	 Knowledge: At the conclusion of the course the student shall hat a knowledge of the basis of public health, preventive dentists public health problems in India, Nutrition, Environment and the role in health, basics of dental statistics, epidemiological method National oral health policy with emphasis on oral health policy. Skill and Attitude: At the conclusion of the course the student shall have require at the skill of identifying health problem affecting the society, conducting health surveys, conducting health education classes and deciding health strategies. Students should develop a positive attitude towards the problems of he society a must take responsibilities in providing health. Communication abilities: At the conclusions of the course the student should be able to communicate the needs of the communication preventing oral disease. 		
6	Course Outcomes	CO401.1 Student would be able to understand the community aspects of oral health care delivery. CO401.2 Student would be able to carry out proficiently the collection of statistical data (demographic) among Indian Population, birth rates, morbidity and mortality, literacy, per capita income.		
7	Course Description	Understanding the provision of health care in the community and prevalence of common dental conditions in India. To prevent and control oral diseases and promote oral health through organized community efforts. Understand the community aspects of dentistry and take up leadership role		



in solving community oral health problems. Teaching how to communicate with the patients by constant emphasis on behavioural modifications. Understanding the concept of oral health programs and policies.

Applying the principles of health promotion and disease prevention. Have knowledge of community based preventive measures. Contribution of social, cultural and environmental factors in health and illness. Administer oral hygiene instructions and preventive measures like fluoride application and fissure sealing

8	Outline syllabus		
	BDS401.A	Unit A	
			ection to Dentistry
	BDS401.A1 Unit A Topic 1		Introduction to Dentistry: Definition of Dentistry, Scope, aims
			and objectives of Dentistry.
	BDS401.A2	Unit A	History of dentistry
		Topic 2	
	BDS401.B	Unit B	
		Public l	
	BDS401.B1	Unit B	Health & Disease
		Topic 1	
	BDS401 B2	Unit B	Public Health
		Topic 2	
	BDS401 B3	Unit B	Epidemiology
		Topic 3	
	BDS401 B4 Unit B Topic 4		Environmental Health
	BDS401 B5	Unit B	Health Education
	Topic 5		
	BDS401 B6	Unit B	Health Care Delivery System
		Topic 6	
	BDS401 C	Unit C	
		Dental	Public Health
	BDS401 C1	Unit C	Epidemiology of dental diseases
		Topic 1	
	BDS401 C2	Unit C	Nutrition in dental diseases
		Topic 2	
	BDS401 C3	Unit C	Survey
		Topic 3	
	BDS401 C4	Unit C	Payments in Dentistry
		Topic 4	

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DDC401 C5	II'. C	Duran dia Dandista
BDS401 C5	Unit C	Preventive Dentistry
	Topic 5	
BDS401 D	Unit D	
	Research	Methodology and Dental Statistics
BDS401 D1	Unit D	Sampling
	Topic 1	
BDS401 D2	Unit D	Biostatistics
	Topic 2	
BDS401 D3	Unit D	Research Methodology
	Topic 3	

1.	Course evaluation	Attendance Quizzes Presentations Any Other	Minimum 75% is Needed for both theory and clinical practical Taken in every 3 months Video Presentation Project based learning, Assignments, Field trips, Camps	
		Annual examination	Theory-100 Marks Practical- 100 Marks	
2.	Text book/s*	 4. Essentials of public health dentistry 5. Text Book of Preventive and Social Medicine 6. Textbook of public health dentistry 7. Text book of Preventive and Community Dentistry 	Soben Peter K.Park CM Marya SS Hiremath	
3.	Other References	LMS TED learning EBSCOHOST Various scientific articles from various sources		



Schoo	ol:	School of Dental Sciences		
Progr	ram:	BDS (Bachelor of Dental Surgery)		
Batch	1:	2020-2025		
1	Course Code	BDS 402		
2	Course Title	Periodontology		
3	Credits	NA		
4	Contact Hours (L-T-P)	80 -200		
	Course Type	Compulsory (CORE) CC		
5	Course Objective	1. Knowledge of the development, structure and function of tissues		
		both in periodontal health and disease and their relationship with		
		and effect on general health of the patient.		
		2. Knowledge of diagnosis, prevention and treatment of various		
		gingival and periodontal diseases.		
		3. Maintain high standard of professional ethics and conduct and apply		
		these in all aspects of professional life		
		4. Improve awareness and provide possible solutions for periodontal		
		problems throughout the community		
	G			
6	Course Outcomes	CO402.1: Able to diagnose patients' periodontal problems, plan appropriate periodontal treatment and make appropriate decision		
		regarding referral to a specialist wherever required		
		CO402.2: Competent to educate and motivate the patient, give proper		
		instructions to the patients and do periodic recall and evaluation.		
		CO402.3: Competent to perform thorough oral prophylaxis,		
		subgingival scaling, root planing and minor periodontal surgical		
		procedures with familiarization to concept of osseointegration and		
		basic surgical aspects of Implantology		
7	Course Description	Periodontology is the science dealing with the health and disease of		
		the investing and supporting structures of the teeth and oral mucous		
		membrane. The student shall acquire the skill to perform dental		
		scaling, diagnostic tests of periodontal diseases, prevent periodontal		
		diseases, use instruments to perform treatment with full aseptic		
		precaution, periodontal maintenance and refer the patients who require		
		specialist care.		

8	Outline syllabus		
	BDS 402 Unit A		Biologic Basis of Periodontology
	Topic 1		Normal Periodontium
	Topic 2		Classification and Epidemiology of Periodontal Diseases
	Topic 3		Evidence based Decision Making
	Unit B Topic 1		Etiopathogenesis of Periodontal Diseases
			Etiology of Periodontal Diseases



Topic 2	Periodontal pathology
Topic 3	Relationship between Periodontal Diseases and Systemic Health
Unit C	Treatment of Periodontal Diseases
Topic 1	Diagnosis, Prognosis and Treatment Plan
Topic 2	Non-Surgical and Surgical Treatment
Topic 3	Periodontal Maintenance
Unit D	Multidisciplinary Periodontics
Topic 1	Endodontic – Periodontics Interrelationship
Topic 2	Periodontal – Restorative Interrelationship
Topic 3	Periodontal – Orthodontic Interrelationship
Unit E	Oral Implantology
Topic 1	Biologic aspects or Dental Implants
Topic 2	Clinical Aspects of Dental Implants
Topic 3	Implant Complications and Supportive Implant Care

	Course Evaluation	Attendance	Attendance Minimum 75%				
1.		Annual Examination	Theory 100 Marks	Written Exam 70 Marks	Viva Voce 20 Marks	Internal assessment 10 Marks	
			Practical 100 Marks	Clinical case 60 Marks	Viva Voce 30 Marks	Internal assessment 10 Marks	
2.	Text book/s*	Carranza's Clinical Periodontology, 12 th Edition					
3.	Other References	Clinical Periodontology and Implantology – Lindhe Contemporary Periodontics – Cohen Oral Health Survey – WHO Various scientific articles from various sources					



Course Templates – 1.1 Template A1: Syllabus for Theory Subjects

Sc	hool: School of Dental	Batch: 2020-2025	
Sci	iences		
Pr	ogram:	BDS (Bachelor of Dental Surgery)	
1	Course Code	BDS403	
2	Course Title	ORTHODONTICS & DENTOFACIAL ORTHOPEDICS	
3	Credits	NA	
4	Contact Hours	50-0-200	
	(L-T-P)		
	Course Type	Compulsory (CORE)	
5	Course Objective	 This course is intended to give the student an introduction of orthodontic diagnosis, evaluation and treatment planning with the emphasis on the in elements of orthodontics which the general practitioner should be familiar with in order to treat limited orthodontic cases. The student will learn orthodontic triage: separating patients who can be treated by a general practitioner and those who will require referral to a dental specialist. Orthodontic problems of a dental nature and skeletal are covered as well as the surgical Orthognathic surgery. Different orthodontic treatments are presented in general. Simple orthodontic procedures which the general practitioner can perform to control disease and restore function as part general dental work are discussed and implemented as part of the laboratory requirement. 	
6	Course Outcomes	CO 403.1 Be able to diagnose and treat common orthodontic problems. CO 403.2 Be able to gather an appropriate and complete data base on each patient to provide a strong foundation for diagnosis, treatment planning, treatment consultation, treatment and retention of the patient CO 403.3 Be able to identify all types dental malocclusion and perform necessary counselling. CO 403.4 Be able to utilize craniofacial growth and development knowledge in planning and carrying out patient treatment.	
7	Course Description	Undergraduate programme in Orthodontics is designed to enable the qualifying dental surgeon to diagnose, analyse and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures.	



8	Outline syllab	ous	
	BDS-403 A	Unit A	
	BDS-403 A1	Topic 1	Introduction, Definition, Historical background, Aims and Objectives of Orthodontics and need for orthodontics care.
	BDS-403 A2	Topic 2	Growth and Development: In General a. Definition b. Growth spurts and Differential growth
			c. Factors influencing growth and Development d. Methods of measuring growth e. Growth theories (Genetic, Sicher's, Scott's, Moss's, Petrovics, Multifactorial) f. Genetic. and epigenetic factors in growth
	BDS-403 A3	Topic 3	g. Cephalocaudal gradient in growth. Morphologic Development of Craniofacial Structures a. Methods of bone growth b. Prenatal growth of craniofacial structures c. Postnatal growth and development of: cranial base, maxilla, mandible, dental arches and occlusion.
	BDS-403 B	Unit B	arenes and occursion.
	BDS-403 B1	Topic 1	Functional.Development of Dental Arches and Occlusioin a. Factors influencing functional development of dental arches and occlusion. b. Forces of occlusion c. Wolfe's law of transformation of bone d. Trajectories of forces
	BDS-403 B2	Topic 2	Clinical Application of Growth and Development
	BDS-403 B3	Topic 3	Malocclusion - In General a. Concept of normal occlusion b. Definition of malocclusion c. Description of different types of dental, skeletal and functional malocclusion.
	BDS-403 C	Unit C	,
	BDS-403 C1	Topic 1	Classification of Malocclusion Principle, description, advantages and disadvantages of classification of malocclusion by Angle, Simon, Lischer and Ackerman and Proffitt, Normal and Abnormal Function of Stoma tognathic System Aetiology of Malocclusion a, Definition, importance, classification, local and gel ual aetiological factors. b. Etiology of following different types of malocclusion:
			1) Midline diastema2) Spacing

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		Beyond Boundaries
		3) Crowding
		4) Cross-Bite: Anterior/ Poe tenor
		5) Class III Malocclusion
		6) Class II Malocclusion
		7) Deep Bite
		8) Open bite
BDS-403 C2		10. Diagnosis and Diagnostic Aids
	Topic 2	a. Definition, Importance and classification of diagnostic aids
		b. Importance of case history and clinical examination in orthodontics
		c. Study Models: - Importance and uses - Preparation and preservation of study
		models
		d. Importance of intraoral X-rays in orthodontics
		e. Panoramic radiographs: - Principles, Advantages, disadvantages and uses
		1. Cephalometrics: Its advantages, disadvantages
		1. Definition
		2. Description and use of cephalostat
		3. Description and uses of anatomical landmarks lines and angles used in
		cephalometric analysis
		4. Analysis- Steiner's. Down's, Tweed's, Ricket's-E- line
		g. Electromyography and its use in orthodontics.
		h. Wrist X-rays and its importance in orthodontics
BDS-403 C2		General-Principles in Orthodontic Treatment Planning Of Dental And Skeletal
	Topic 3	Malocclusions
		Anchorage in Orthodontics - Definition, Classification, Types and Stability Of
		Anchorage
		Biomechanical Principles in Orthodontic Tooth Movement
		a. Different types of tooth movements
		b. Tissue response to orthodontic force application
		c. Age factor in orthodontic tooth movement

BDS-403 D	Unit D	
BDS-403 D1		Preventive Orthodontics
	Topic	a. Definition
	1	b. Different procedures undertaken in preventive orthodontics and their limitations.
		Interceptive Orthodontics
		a. Definition
		b. Different procedures undertaken in interceptive orthodontics
		c. Serial extractions: Definition, indications, contra-indication, technique,
		advantages and disadvantages.
		d. Role of muscle exercises as an interceptive procedure
		Corrective Orthodontics
		a. Definition, factors to be considered during treatment planning. I.
		b. Model analysis: Pont's, Ashley Flowe's, Bolton, Careys, Moyer* Mixed Dentition
		Analysis
		c. Methods of gaining space in the arch: - Indications, relative merits and demerits of
		proximal stripping, arch expansion and extractions
		d. Extractions in Orthodontics - indications and selection of teeth for extraction.
BDS-403 D2		Orthodontic Appliances: General

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_	1		Beyond Boundaries	
		Topic	a. Requisites for orthodontic appliances	
		2	b. Classification, indications of Removable and Functional Appliances	
			c. Methods of force application	
			d. Materials used in construction of various orthodontic appliances - use of	
			stainless. steel, technical considerations in curing of acrylic, Principles of	
			welding and soldering, fluxes and antifluxes.	
			e. Preliminary knowledge of acid etching and direct bonding.	
			Ethics	
	BDS-403 D3		REMOVABLE ORTHODONTIC APPLIANCES	
		Topic	1) Components of removable appliances	
		3	2) Different types of clasps and their use	
			3) Different types of labial bows and their use	
			4) Different types of springs and their use	
			5) Expansion appliances in orthodontics:	
			i) Principles	
			ii) Indications for arch expansion	
			iii) Description of expansion appliances and different types of expansion devices	
			and	
			their uses.	
			iv) Rapid maxillary expansion	

BDS-403 E		
BDS-403 E1		FIXED ORTHODONTIC APPLIANCES
	Topic	1. Definition, Indications & Contraindications
	1	2. Component parts and their uses
		3. Basic principles of different techniques: Edgewise, Begg straight wire.
BDS-403 E2		EXTRAORAL APPLIANCES
	Topic	1. Headgears
	2	2. Chincup
		3. Reverse pull headgears
		MYOFUNCTIONAL APPLIANCES
		1. Definition and principles
		2. Muscle exercises and their uses in orthodontics
		3. Functional appliances:
		i) Activator, Oral screens, Frankel's function regulator,
		bionator twin blocks, lip bumper
		ii) Inclined planes - upper and lower
		18. Orthodontic Management Of Cleft Lip And Palate
		19. Principles Of Surgical Orthodontics
		Brief knowledge of correction of:
		a. Mandibular Prognathism and Retrognathism
		b. Maxillary Prognathism and Retrognathism
		c. Anterior open bite and deep bite
		d. Cross bite
		20. Principle, Differential Diagnosis 8s Methods of Treatment of:
		1. Midline diastema
		2. Cross bite
		3. Open bite



		 4. Deep bite 5. Spacing 6. Crowding 7. Class II - Division 1, Division 2 8. Class III Malocclusion - True and Pseudo Class III
BDS-403 E3	Topic 3	Retention and Relapse Definition, Need for retention, Causes of relapse, Methods of retention, Different types of retention devices, Duration of retention, Theories of retention.



School: School of Dental		Batch: 2020-2025
Sciences		
_	ogram:	BDS (Bachelor of Dental Surgery)
1	Course Code	BDS404
2	Course Title	ORAL MEDICINE & RADIOLOGY
3	Credits	NA
4	Contact Hours	65-0-200
	(L-T-P)	
	Course Type	Compulsory (CORE)
5	Course Objective	 To train the students to diagnose the common disorders of Orofacial region by clinical examination and with the help of such investigations as may be required and medical management of oro-facial disorders with drugs and physical agents. To train the students about the importance, role, use and techniques of radiographs/digital radiographs and other imaging modalities in diagnosis. To train the students in various investigatory procedures like biopsy, exfoliative cytology, Hematological, Microbiological and other tests and investigations necessary for diagnosis and prognosis.
6	Course Outcomes	CO404.1: Generate graduates that demonstrate the necessary knowledge, skills and attitude in Oral & Maxillofacial Diagnosis procedure and medical management of such disorder. CO404.2 To create confident and competent dental professionals who can accomplish and execute clinical deftness in the diagnosis and management of Orofacial disorders.
7	Course Description	The course offers Knowledge: Possess a thorough knowledge and comprehension of diagnosis and medical management of the oro-facial diseases and systemic diseases with oral manifestations, in addition to, the infection control measures in the dental clinical environment and laboratories. Patient management: Take proper chair side history, clinical examination of patient and perform medical and dental diagnostic procedures including radiographs and formulate a proper treatment plan. Investigations: Carry out appropriate chair side and radiological investigations to obtain the diagnosis. Develop the skill to advise advanced radiological investigations.



Patient treatment: Carry out appropriate and effective medical management of patients, once the diagnosis and treatment plan has been outlined. To motivate, educate and counsel the patient regarding the side effects of Tobacco.

Communication skills: Develop communication skills- in particular to explain various options available regarding management and to obtain a true informed consent from the patient. Ask for help from colleagues or seniors when required without hesitation.

Life-long Learning: Teach and/or guide, colleagues and other students. Use information technology tools and carries out research in both medicine and radiological fields with the aim of publishing his/her work and presenting the same at scientific platform on a regular basis.

Ethics: Adopt ethical principles in all aspects of Oral Medicine & Radiology, special emphasis on Radiation protection measures. Apply high moral and ethical standards while carrying on human or animal

8	Outline sylla	bus	
	BDS404.A	Unit A	1
		DIAGNO	OSTIC METHODS
	BDS404.A1	Unit A	Definition and importance of Diagnosis and various types of diagnosis
		Topic 1	
	BDS404.A2	Unit A	Method of clinical examinations
		Topic 2	
	BDS404.A3	Unit A	Investigations
		Topic 3	
	BDS404.B	Unit B	
		DIAGNO	SIS & DIFFERENTIAL DIAGNOSIS
	BDS404.B1	Unit B	Teeth: Developmental abnormalities, causes of destruction of teeth and their
		Topic 1	sequelae and discoloration of teeth
	BDS404 B2	Unit B	Diseases of bone and Osteodystrophies, Development disorders, Metabolic
		Topic 2	disorders.
	BDS404 B3	Unit B	Temparomandibular joint Disorders.
		Topic 3	
	BDS404 B4	Unit B	Common cysts and Tumors.
		Topic 4	
	BDS404 C	Unit C	
		TUMOR	S
	BDS404 C1	Unit C	Soft tissue tumors
		Topic 1	
	BDS404 C2	Unit C	Hard tissue tumors
		Topic 2	
	BDS404 C3	Unit C	Periodontal diseases
		Topic 3	



BDS404 C4	Unit C	Granulomatous disorders
	Topic 4	
BDS404 C5	Unit C	Miscellaneous Disorders: Burkitt lymphoma, sturge - Weber syndrome,
	Topic 5	CREST syndrome, rendu-osler-weber disease.
BDS404 D	Unit D	
		CINE & THERAPEUTICS
BDS404 D1	Unit D	Infections of oral and paraoral structures
	Topic 1	
BDS404 D2	Unit D	Important common mucosal lesions
	Topic 2	
BDS404 D3	Unit D	Cervico-facial lymphadenopathy.
	Topic 3	
BDS404 D4	Unit D	Facial pain
	Topic 4	
BDS404 D5	Unit D	Altered sensations: Cacogeusia, halitosis
	Topic 5	
BDS404 D6	Unit D	Tongue in local and systematic disorder
	Topic 6	
BDS404 D7	Unit D	Oral manifestations of metabolic disorders, endocrine disorders, nutritional
	Topic 7	deficiencies, blood disorders
BDS404 D8	Unit D	Disease of salivary glands
	Topic 8	
BDS404 D9	Unit D	Dermatological diseases with oral manifestations
	Topic 9	
BDS404 D10	Unit D	Immunological diseases with oral manifestations
	Topic 10	
BDS404 D11	Unit D	Allergy: Local allergic reactions, anaphylaxis, serum sickness
	Topic 11	
BDS404 D12	Unit D	Foci of oral infection and their ill effects on general health
	Topic 12	

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BDS404 D13	Unit D	Management of dental problems in medically compromised persons
	Topic 13	
BDS404 D14	Unit D	Precancerous lesions and conditions
	Topic 14	
BDS404 D15	Unit D	Nerve and muscle diseases
	Topic 15	
BDS404 D16	Unit D	Forensic odontology
	Topic 16	
BDS404 D17	Unit D	Therapeutics
	Topic 17	
BDS404 E		
BDS404 E1	Unit E	Scope of the subject and history of origin
	Topic 1	
BDS404 E2	Unit E	Physics of radiation, radiation units
	Topic 2	
BDS404.E3	Unit E	Biological effects of radiation.
	Topic 3	
BDS404 E4	Unit E	Radiation safety and protection measures.
	Topic 4	
BDS404 E5	Unit E	Principles of image production.
	Topic 5	
BDS404 E6	Unit E	Radiographic techniques: Intra oral, cephalometric & Specialised
	Topic 6	radiographs.
BDS404 E7	Unit E	Factors in production of good radiographs
	Topic 7	
BDS404 E8	Unit E	Radiographic normal anatomical landmarks
	Topic 8	
	1	
BDS404 E9	Unit E	Faculty radiographs and artefacts in radiographs
	Topic 9	
BDS404 E10	Unit E	Interpretation of radiographs in various abnormalities of teeth, bones and

BDS404 E9	Unit E	Faculty radiographs and artefacts in radiographs
	Topic 9	
BDS404 E10	Unit E	Interpretation of radiographs in various abnormalities of teeth, bones and
	Topic 10	other orofacial tissues
BDS404 E11	Unit E	Principles of radiotherapy of oro-facial malignancies and complications of
	Topic 11	radiotherapy
BDS404 E12	Unit E	Contrast radiography and basic knowledge of radio-active isotopes
	Topic 12	
BDS404 E13	Unit E	Radiography in Forensic Odontology
	Topic 13	



		Attendance	Minimum 75% is Needed for practical	both theory and clinical
		Quizzes	Taken in every 3 months	
1	C	Presentations	Video Presentation	
1.	Course evaluation	Any Other	Project based learning, Assign	ments, Webinars
		A 1	m 100 M 1	
		Annual	Theory - 100 Marks	
		examination	Practical – 100 Marks	
		1. Burket's O	ral Medicine diagnosis and	Greenberg, Martin S.
		treatment 1	0 th edn	Greeneerg, marin s.
	Text book/s*	2. Dental Rad	liography: Principles and	Haring, Joen
2.		Techniques	s 3 rd Edn	
4.	Text books	3. Oral Radiology: Principles and		
		Interpretati	ion 5 th edn	White and Pharoah
		4. Oral and M	Iaxillofacial Pathology 3 rd edn	Neville and Brad W
		LMS		
,	Oth on Defenences	TED learning		
3.	Other References	EBSCOHOST		
		Various scientific	articles from various sources	



Sch	nool: School of Dental	Batch: 2020-2025
Sci	ences	
Pro	ogram:	BDS (Bachelor of Dental Surgery)
1	Course Code	BDS405
2	Course title	ORAL AND MAXILLOFACIAL SURGERY
3	Credits	NA
4	Contact Hours	70-0-360
	(L-T-P)	
	Course Type	Compulsory (CORE)
5	Course Objective	 To train the students to diagnose the common disorders of Orofacial region by clinical examination and with the help of such investigations as may be required and medical management of oro-facial disorders with drugs and physical agents. To train the students about the importance, role, use and techniques of radiographs/digital radiographs and other imaging modalities in diagnosis. To train the students in various investigatory procedures like biopsy, exfoliative cytology, Hematological, Microbiological and other tests and investigations necessary for diagnosis and prognosis.
6	Course Outcomes	CO405.1: Application of knowledge of related medical subjects in management of patients with oral surgical problem. CO405.2: Sufficient knowledge to diagnose manage and treat minor oral surgical procedures CO405.3: Understanding and exposure to the management of major oral surgical problems and principles involved in inpatient management
7	Course Description	The course offers Knowledge: Possess a thorough knowledge and comprehension of diagnosis and medical management of the oro-facial diseases and systemic diseases with oral manifestations, in addition to, the infection control measures in the dental clinical environment and laboratories. Patient management: Take proper chair side history, clinical examination of patient and perform medical and dental diagnostic procedures including radiographs and formulate a proper treatment plan. Investigations: Carry out appropriate chair side and radiological investigations to obtain the diagnosis. Develop the skill to advise advanced radiological investigations.



Patient treatment: Carry out appropriate and effective medical management of patients, once the diagnosis and treatment plan has been outlined. To motivate, educate and counsel the patient regarding the side effects of Tobacco.

Communication skills: Develop communication skills- in particular to explain various options available regarding management and to obtain a true informed consent from the patient. Ask for help from colleagues or seniors when required without hesitation.

Life-long Learning: Teach and/or guide, colleagues and other students. Use information technology tools and carries out research in both medicine and radiological fields with the aim of publishing his/her work and presenting the same at scientific platform on a regular basis.

Ethics: Adopt ethical principles in all aspects of Oral Medicine & Radiology, special emphasis on Radiation protection measures. Apply high moral and ethical standards while carrying on human or animal research.

8	Outline syllabus		
	BDS405.A Unit A		
		Introduction	
	BDS405.A1	Unit A	Definition, Aims and Objectives.
		Topic 1	
	BDS405.A2	Unit A	Scope of Oral and Maxillofacial Surgery
		Topic 2	
	BDS405.B	Unit B	
		Diagnosis in o	oral surgery
	BDS405.B1	Unit B	History taking
		Topic 1	
	BDS405. B2	Unit B	Clinical examination
		Topic 2	
	BDS405. B3	Unit B	Investigations.
		Topic 3	
	BDS405. C	Unit C	
	Infection Cor		trol
	BDS405.C1	Unit C	Principlesofinfectioncontrolandcross-
		Topic 1	infectioncontrolwithparticularreferencetoHIV/AIDSand Hepatitis

BDS405. D	Unit D Principles of Oral Surgery	
BDS405. D1	Unit D	Asepsis
	Topic 1	



DD	DS405. D2	Unit D	Important common mycocal locions
DD	75405. DZ		Important common mucosal lesions
		Topic 2	
BD	DS405. D3	Unit D	Painless Surgery
		Topic 3	
BD	S405. D4	Unit D	Access – Intra Oral & Extra Oral
		Topic 4	
BD	DS405. D5	Unit D	Control of haemorrhage during surgery Normal Haemostasis, Local measures
		Topic 5	available to control bleeding, Hypotensive anaesthesia, etc
BD	DS405. D6	Unit D	Drainage & DebridementPurpose of drainage in surgical wounds
		Topic 6	
BD	S405. D7	Unit D	Closure of wounds
		Topic 7	
BD	S405. D8	Unit D	Post- operative care
		Topic 8	

	BDS405. E	1	
	BDS405. E1	Unit E	General considerations Ideal Extraction.
		Topic 1	
		Topic I	Extractions in medically compromised patients
	BDS405, E2	Unit E	Forceps or intra-alveolar or closed method. Principles, types of movement, force
	DD5405. L2	Topic 2	
	BDS405.E3	Unit E	Trans-alveolar, surgical or open method, Indications, surgical procedure.
	DDS 10C.EC	Topic 3	
		Topic 3	commonly used elevators
	BDS405, E4	Unit E	Complications of Exodontia - Complications during exodontia Common to both
	DD 5403, L 4	Topic 4	
		Topic	management of complications.
			management of complications.
BDS	5405. F		
B	DS405. F1	Unit	Incidence, definition, aetiology
		F	
		Topi	
		c 1	
B	DS405. F2	Unit	Impacted mandibular third molar. Classification, reasons for removal, Assessment -
		I I	both
		Topi	Clinical& radiological Surgical procedures for removal. Complications during and
			after removal, Prevention and management.
B	DS405. F3		Maxillary third molar, Indications for removal, classification, Surgical procedure for
		F 1	removal.
		Topi	
		c 3	
B	DS405. F4	Unit	Impacted maxillary canine Reasons for canine impaction, Localization, indications
		1	for
		Topi 1	removal, Methods of management, labial and palatal approach, Surgical exposure,
		c 4	transplantation, removal etc
	BDS405. G		



BDS405.G1	Unit G	Definition, classification of procedures
DDC405 C2	Topic 1 Unit G	Corrective precedures Alvedenlesty Deduction of mavillary tuberesities
BDS405.G2		Corrective procedures: Alveoloplasty, Reduction of maxillary tuberosities,
DDC40= C2	Topic 2	Frenectomies and removal of tori.
BDS405.G3	Unit G	Ridge extension or Sulcus extension procedures Indications and various surgical
	Topic 3	procedures
BDS405.G4	Unit G	Ridge augmentation and reconstruction. Indications, use of bone grafts,
	Topic 4	Hydroxyapatite Implants - concept of osseo integration Knowledge of various
		types of implants and surgical procedure to place implants.
BDS405. H		
BDS405.H1	Unit H	Surgical anatomy of the sinus. Sinusitis both acute and chronic
	Topic 1	
BDS405.H2	Unit H	Surgical approach of sinus - Caldwell-Luc procedure Removal of root from the
	Topic 2	sinus.
BDS405.H3	Unit H	Oro-antral fistula - aetiology, clinical features and various surgical methods for
	Topic 3	closure.
BDS405. I		
BDS405.I1	Unit I	Applied surgical anatomy of the joint.
	Topic 1	
BDS405.I2	Unit I	Dislocation -Types, aetiology, clinical features and management. ankylosis -
	Topic 2	Definition, aetiology, clinical features and management.
BDS405.I3	Unit I	Myo-facial pain dysfunction syndrome, aetiology, clinical features, Management-
	Topic 3	Non surgical and surgical.
BDS405.I4	Unit I	Internal derangement of the joint. Arthritis of T.M. Joint.
	Topic 4	
BDS405. J		
BDS405.J1	Unit J	Introduction, factors responsible for infection, course of odontogenic infections,
	Topic 1	spread of odontogenic infections through various facial spaces. Dento-
		alveolarabscess - aetiology, clinical features and management.
BDS405.J2	Unit J	Osteomyelitis of the jaws - definition, aetiology, pre-disposing factors,
	Topic 2	classification, clinical features and management.
BDS405.J3	Unit J	Ludwigs angina - definition, aetiology, clinical features, management and
	Topic 3	complications.
<u> </u>	1	· ·
BDS405. K		
BDS405.K1	Unit K	Definition, classification, pathogenesis.
	Topic 1	, , , , , , , , , , , , , , , , , , , ,
BDS405.K2	Unit K	Diagnosis - Clinical features, radiological, aspiration biopsy, use of contrast
	Topic 2	media and histopathology.
BDS405.K3	Unit K	Management - Types of surgical procedures, Rationale of the techniques,
	Topic 3	indications, procedures, complications etc.
BDS405. L		1
228.00.2		

Non odontogenetic benign tumours occuring in oral cavity - fibroma,

papilloma, lipoma, ossifying fibroma, myeloma etc.

Ameloblastoma - Clinical features, radiological appearance and methods of

Carcinoma of the oral cavity - Biopsy – types Outline of management of

BDS405.L1

BDS405.L2

BDS405.L3

Unit L

Topic 1

Unit L Topic 2

Unit L Topic 3 management.

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		Beyond Boundaries
		Cell carcinoma: surgery, radiation and chemotherapy TNM classification.
DDC405 I 4	Unit L	
BDS405.L4	Topic 4	Role of dental surgeons in the prevention and early detection of oral cancer.
BDS405. M		
BDS405.M1	Unit M	General considerations, types of fractures, etiology, clinical features and
	Topic 1	general principles of management.
BDS405.M2	Unit M	mandibular fractures - Applied anatomy, classification. Diagnosis - Clinical
	Topic 2	and radiological.
BDS405.M3	Unit M	Management - Reduction closed and open Fixation and immobilization
	Topic 3	Methods Outline of rigid and semi-rigid internal fixation.
BDS405.M4	Unit M	Fractures of the condyle - etiology, classification, clinical features, principles of
	Topic 4	management.
BDS405.M5	Unit M	Fractures of the middle third of the face.
	Topic 5	Definition of the mid face, applied surgical anatomy, classification, clinical
		features and outline of management.
BDS405.M6	Unit M	Alveolar fractures - methods of management Fractures of the Zygomatic
	Topic 6	Complex Classification, clinical features, indications for treatment, various
		methods of reduction and fixation.
BDS405.M7	Unit M	Complications of fractures - delayed union, non-union and malunion.
	Topic 7	
BDS405. N		
BDS405.N1	Unit N	Diagnosis of salivary gland diseases.
	Topic 1	
BDS405.N2	Unit N	Sialography, contrast media, procedure.
BDS405.N3	Topic 2 Unit N	Infections of the salivary glands
30403.N3	Topic 3	Sialolithiasis - Sub mandibular duct and gland and parotid duct. Clinical
	Topic s	features, management.
BDS405.N4	Unit N	Salivary fistulae
DD5405.N4	Topic 4	Salivary fistulae
BDS405.N5	Unit N	Common tumours of salivary glands like Pleomorphic adenoma including
	Topic 5	minor salivary glands.
BDS405. O	1	innor survery grands
BDS405.O1	Unit O	Basic forms - Prognathism, Retrognathism and open bite. Reasons for correction.
DD 5405.01	Topic 1	Busic forms Trognatinsm, retrognatinsm and open one. Reasons for correction.
BDS405.O2	Unit O	Outline of surgical methods carried out on mandible and maxilla.
2221000	Topic 2	
BDS405. P		
BDS405.P1	Unit P	Trigeminal neuralgia - definition, aetiology, clinical features and methods
	Topic 1	of management including surgical.
BDS405.P2	Unit P	Facial paralysis - Aetiology, clinical features, Management
	Topic 2	
BDS405.P3	Unit P	Nerve injuries - Classification
	Topic 3	
BDS405. Q		
BDS405.Q1	Unit Q	Aetiology of the clefts, incidence, classification, role of dental surgeon in
	Topic 1	the management of cleft patients.

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		Beyond Bounda
BDS405.Q2	_	Outline of the closure procedures.
	Topic 2	
BDS405. R		
BDS405.R1	Unit R	Primary care of medical emergencies in dental practice particularly -
	Topic 1	Cardio
		Vascular, Respiratory, Endocrine
BDS405. R2		Primary care of medical emergencies in dental practice particularly -
	Topic 2	Anaphylactic reaction, Epilepsy, Epilepsy
BDS405. S		
BDS405.S1	Unit S	Applied anatomy, Ideal location for giving these injections
	Topic 1	
BDS405.S2	Unit S	Types and techniques
	Topic 2	
BDS405. T	Unit T	
		plantology
BDS405. T1		Introduction
	Topic1	
BDS405. T2		Types of implants, and surgical procedure to install implants
	Topic 2	
BDS405. U	Unit U	
	Ethics	
BDS405. U1		General ethics towards work and patient
DDG405 77	Topic 1	
BDS405. U2		Ethics towards fellow doctor
	Topic 2	
DDC405 X/		
BDS405. V	Unit V	T, 1, 'CTA 1 'C' / C1 1 /1 /
BDS405.V1	Topic 1	Introduction, concept of L.A., classification of local anaesthetic
	Topic i	agents, ideal requirements, mode of action, types of local
BDS405.V2	Unit V	anaesthesia, complications.
DD5405. V 2	Topic 2	Various Nerve Block Techniques
BDS405. W	Unit W	*
DD3403. W	Topic 1	Concept of general anaesthesia. Indications of general anaesthesia
DDC405 W1		in dentistry. Pro engasthetic evaluation of the patient. Pro engasthetic
BDS405.W1	Topic 2	Pre-anaesthetic evaluation of the patient. Pre-anaesthetic medication, advantages, drugs used. Commonly used anaesthetic
	1 opic 2	agents. Complication during and after G.A.
BDS405.W2	Unit W	
DD3403.W2	Topic 3	Cardiopulmonary resuscitation, Use of oxygen and emergency drugs. Tracheostomy.
BDS405.W3		Concept of general anaesthesia. Indications of general anaesthesia
DD3403.W3	Topic 1	in dentistry.
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		Attendance	Minimum 75% is Needed for both theory and clinical practical	
1		Discussions	Every day in Practicals	
1.	Course evaluation	Any Other	Various Surgical Procedures I	Demonstration on Patients
		Annual examination	200 Marks (100 marks Theory	y + 100 marks Practical)
	Text book/s*	Text book of Oral And Maxillofacial		Neelima Anil Malik
		Surgery		
,		2. Handbook of LOCAL ANESTHESIA		Stanley F. Malamed
2.		MEDICAL EMERGENCIES in the DENTAL OFFICE		Stanley F. Malamed
		TED learning,		
3.	Other References	EBSCOHOST		
		Various scientific articles from various sources		



Course Templates –

2.1 Template A1: Syllabus

School: School of Dental Sciences		Batch: 2020-2025
Program:		BDS (Bachelor of Dental Surgery)
1	Course Code	BDS406
2	Course Title	CONSERVATIVE DENTISTRY & ENDODONTICS
3	Credits	NA
4	Contact Hours	110-0-460
	(L-T-P)	
	Course Type	Compulsory (CORE)
5	Course Objective	1: Students are provided with knowledge to diagnose dental caries and skilled to treat it.
		2: To train the students about the importance, role, use and techniques of radiographs/digital radiographs and other imaging modalities in diagnosis.
		3: Be Competent to perform Class I and Class II cavities and their
		restoration with amalgam.
		4: Be able to restore class V and Class III cavities with glass
		ionomer cement.
		5: Be able to diagnose and appropriately treat pulpaly involved teeth
		(pulp capping procedures).
		6 : Be able to perform RCT for anterior teeth.
		7: Be competent to carry out small composite restorations
		8: Understand the principles of aesthetic dental procedures
		9: Students are geared to maintain high standard of professional
		ethics and conduct and apply it willingly in all aspects of
		professional life.

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6	Course Outcomes	CO406.1: Impart clinical skills to student which will help them in providing quality treatment and basic endodontic procedure skill. CO406.2: Practice Dentistry in a competent and ethical manner which will contribute to the oral health and general well-being of patient. CO406.3: Professional Behaviour, basic skills to carry out range of Dental Procedure in General dental Practice. CO406.4: Importance of life -long learning and updating the knowledge in the field of Restorative Dentistry & Endodontics.
7	Course Description	The course offers Knowledge: Possess a thorough knowledge and comprehension of diagnosis and dental management of the Caries in addition to the infection control measures in the dental clinic setting. Patient management: Take proper chair side history, clinical examination of patient and perform dental diagnostic procedures including radiographs and formulate a proper treatment plan. Patient treatment: Carry out appropriate and effective dental management of patients, once the diagnosis and treatment plan has been outlined. To motivate, educate and counsel the patient regarding the importance of dental care.

8	Outline sylla	bus	
	BDS406.A	UNIT A INT	RODUCTION TO ENDODONTICS
	BDS406.A1	Unit A Topic 1	Definition
	BDS406.A2	Unit A Topic 2	Importance of Endodontics
	BDS406.A3	Unit A Topic 3	Scope & Future of Endodontics
	-		TIONALE &PRINCIPLES OF ENDODONTICS
	BDS406.B1	Unit B Topic 1	Case selection, indication and contraindications for root canal treatments
	BDS406 B2	Unit B Topic 2	Clinical diagnostic methods Case history, diagnosis and treatment plan.
	BDS406 B3	Unit B Topic 3	Microbiology of endodontic infection.

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BDS406 B4	Unit B Topic 4	Isolation and infection control in Endodontics (Rubber dam application)
BDS406. C	UNIT C END	ODONTIC INSTRUMENTS
BDS406 C1	Unit C	Hand instruments
	Topic 1	
BDS406 C2	Unit C	Power driven instruments
	Topic 2	
BDS406C3	Unit C	Standardization
	Topic 3	

BDS406 C4	Unit C	Principles of using endodontic instruments
	Topic 4	
BDS406 C5	Unit C	Sterilization
	Topic 5	
BDS406 D	Unit D PUL	PAL DISEASES
BDS406 D1	Unit D	Classification, etiology, diagnosis, management.
	Topic 1	
BDS406E	UNIT E	
	PERIAPICA	L DISEASES
BDS406E1	Unit E	Classification, etiology, diagnosis, management.
	Topic 1	
BDS406F	UNIT F	
	VITAL PUL	P THERAPY:
BDS406F1	Unit F	Indirect and direct pulp capping
	Topic 1	
BDS406F2	Unit F	Pulpotomy - types and medicaments used
	Topic 2	
BDS406F3	Unit F	Apexogenesis and apexification and problems of open apex
	Topic 3	
BDS406G	Unit G	
	Esthetics in o	
BDS406 G1	Unit G	Introduction and scope
	Topic 1	
BDS406 G2	Unit G	Anatomy and physiology of smile
	Topic 2	
BDS406G3	Unit G	Role of colour and translucency
	Topic 3	
BDS406 G4	Unit G	Esthetic recontouring& Management of discoloured teeth
	Topic 4	

BDS406 H	UNIT H: COMPOSITE RESTORATIONS	
BDS406H1	Unit H	Indications, contraindications, advantages and disadvantages



	Topic 1	564040 804408
BDS406H2	Unit H	Stepwise procedure of tooth preparation for composite restoration.
DD5400H2		Stepwise procedure of tooth preparation for composite restoration.
	Topic 2	
BDS406 H3	Unit H	Clinical technique for posterior direct composite restorations
	Topic 3	
BDS406 H4	Unit H	Finishing and polishing of composite restoration
	Topic 4	
BDS406 I		
BDS406I1	Unit I	Indications, contraindications, advantage and disadvantages
	Topic 1	
BDS406I2	Unit I	Materials used & Types of bevels in cast restoration
	Topic 2	
BDS406 I3	Unit I	Fabrication of wax patterns
	Topic 3	
BDS406 I4	Unit I	Differences in tooth preparation for amalgam and cast restorations
	Topic 4	
BDS406J	UNIT J:	CASTING
BDS406J1	Unit J	Die materials and preparation of dies
	Topic 1	
BDS406 J2	Unit J	Alloys used for casting & Casting procedure
	Topic 2	
BDS406 J3	Unit J	Casting defects
	Topic 3	



BDS406K	Unit K: Temporisation or interim restoration		
BDS406K1	Unit K Topic 1	Materials and procedure	
BDS406L		OOT CARIES	
BDS406L1	Unit L	Etiology, clinical features and management	
BDS406M	Topic 1 UNIT M: N	NON- CARIOUS DESTRUCTION OF TOOTH STRUCTURE	
BDS406 N	UNIT N:	Ceramic Restorations	
BDS406 N1	Unit N Topic 1	Indications, contraindications, advantages, disadvantages	
BDS-406N2	Unit N Topic 2	Recent Advances & Techniques in Brief	
BDS406 O	-	IRECT FILLING GOLD RESTORATIONS	
BDS406O1	Unit O Topic 1	Tooth preparation and Restoration	
BDS406O2	Unit O Topic 2	Indications, contraindications, advantages, disadvantages	
BDS406 P	UNIT P: ANATOMY OF PULP SPACE		
BDS406 Q	UNIT Q: ACCESS PREPARATION		
BDS406 Q1	UNIT Q Topic1	Objectives& Principles	
BDS406 Q2	UNIT Q Topic2	Instruments & Steps	
BDS406 R	UNIT R: DISINFECTION OF ROOT CANAL SPACE		
BDS406 R1	UNIT R Topic1	Irrigants: Functions & Types	
BDS406 R2	UNIT R Topic2	Intracanal Medicaments: Function & Types	
BDS406 S	UNIT S: OBTURATION OF THE ROOT CANAL SYSTEM		
BDS406 S1	UNIT S TOPIC1	Materials- Ideal root canal filling material, classification of materials	
BDS406 S2	UNIT S TOPIC2	Classification and procedure	
BDS406 T		OST ENDODONTIC RESTORATION	
BDS406 T1	UNIT T TOPIC1	Materials used	
BDS406 T2	UNIT T	Procedure	



	TOPIC 2	beyond boonds	
BDS406 U	UNIT U: TRAU	UNIT U: TRAUMATIZED TEETH	
BDS406 U1	UNIT U	Classification of fractured teeth	
	TOPIC1		
BDS406 U2	UNIT U	Management of fractured tooth	
	TOPIC2		
BDS406 V	UNIT V: ENDO	UNIT V: ENDODONTIC SURGERIES	
BDS406 V1	UNIT V	Indication &contraindications	
	TOPIC1		
BDS406 V2	UNIT V	Surgical instruments and techniques	
	TOPIC2		
BDS406 W	UNIT W: RETREATMENT IN ENDODONTICS		

		Attendance	Minimum 75% is Needed for both theory and clinical practical	
1.	Course evaluation	Quizzes Presentations	Taken in every 3 months Video Presentation	
1.	Course evaluation	Any Other	Project based learning, Assign	nments
		Annual	Theory - 100 Marks	monts.
		examination	Practical – 100 Marks	
2.	Text book/s*	The Art & Science of Operative Dentistry Principle & Practice of Operative Dentistry Grossman's Endodontic Practice Sturdivant, Mosby U.S.A Charbeneu, Varghese Publishing, Mumbai B. Suresh Chandra & V. Gopi Krishna, Wolters		Charbeneu, Varghese Publishing, Mumbai B. Suresh Chandra & V.
3.	Other References	LMS TED learning EBSCOHOST Various scientific articles from various sources		



	ol: School of Dental	Batch: 2020-25	
Science		DDC (Pachalor of Dantal Surgary)	
Progr	am;	BDS (Bachelor of Dental Surgery)	
1	Course Code	BDS-407	
2	Course Title	PROSTHODONTICS, CROWN AND BRIDGE	
3	Credits	NA	
4	Contact Hours (L-T-P)	110-0-460	
	Course Type	Compulsory (CORE)	
5	Course Objective	1. Training programme for graduates in prosthetic dentistry including	
		Crown & Bridge & Implantology is structured to achieve knowledge and	
		skill in theoretical and clinical laboratory, attitude, communicative skills	
		and ability to research with understanding of social, cultural, educational	
		& environmental background of the society.	
		2. The undergraduate training programme provides lectures, seminars,	
		clinical experience and clinical teaching in the period of five year dental	
		curriculum, students are exposed to a wide range of patients with	
		prosthetic problem and all students get extensive pre-clinical and clinical	
		experience in the department.	
6	Course Outcomes	CO407.1 Dental graduate with knowledge on prosthetics needs of	
		patients, fabrication of all Prosthodontic modes of treatment.	
		CO407.2 Dental graduate who is able to diagnose motivate and treat	
		patients who are completely and partially edentulous (including	
		geriatric patients) with complete & partial dentures	
		CO407.3 Dental graduate skilled enough to identify cases requiring	
		prosthodontics specialist treatment needs and refer them for further	
		follow up.	
7	Course Description	It is the dental speciality pertaining to the diagnosis, treatment planning, rehabilitation and maintenance of the oral function, comfort, appearance & health of patients with clinical conditions associated with missing or deficient teeth & or maxillofacial tissues by using biocompatible tissues.	



Outline syllabus			
BDS-	Unit A		
407.A	COMPLE	TE DENTURES	
BDS-	Unit A	Applied Anatomy and Physiology- Introduction, Biomechanics of the edentulous	
407.A1	Topic 1	state, Residual Ridge Resorption.	
BDS-	Unit A	Communicating with the patient-Understanding the patients, mental attitude,	
407.A2	Topic 2	Instructing the patient	
BDS.407.	Unit A	Diagnosis and Treatment Planning for patients- (i) with some teeth remaining, (ii)	
A3	Topic 3	with no teeth remaining. (Systemic status, Local Factor, The geriatric patient, Diagnostic procedures)	
BDS-	Unit A	Articulators- Discussion	
407.A4	Topic 4		
BDS-	Unit A	Improving the patients denture foundation and ridge relation- an overview.	
407.A5	Topic 5	a) Pre-Operative Examination	
		b) Initial hard & soft Tissue procedure	
		c) Secondary hard & soft tissue procedure	
		d) Implant procedure	
		e) Congenital deformities	
		f) Postoperative procedure	
		1) Postoperative procedure	
BDS.407.	Unit A	Principles of Retention, Support and Stability	
A6	Topic 6		
BDS- UnitA Impressions-detail		Impressions-detail	
407.A7	Topic 7	a) Muscles of facial expression	
		b) Biological Considerations for maxillary and mandibular impression	
		incuding anatomy landmark and their interpretation.	
		c) Impression Objectives	
		d) Impression materials	
		e) Impression techniques	
		, 1	
		f) Maxillary & Mandibular Impression procedures	
		i) Preliminary Impressions	
		ii) Final Impressions	
		g) Laboratory procedures involved with impression making (Beading &	
		Boxing, Cast preparation)	
BDS-	Unit A	Record Bases and Occlusion Rims	
407.A8	Topic 8	a) Materials & Techniques	
1074110	1000	b) Useful Guidelines and Ideal Parameters	
		c) Recording and transferring bases and occlusal rims	
BDS.407.	UnitA	Biological Consideration in jaw relation & jaw movements- Craniomandibular	
A9	Topic 9	relations.	
**/	Topic	10111111111	

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		A) Mandibular Movements	
		B) Maxillo-mandibular relation including vertical and horizontal jaw relations	
		C) Concept of occlusion	
BDS-	Unit A	Relating the patient to the Articulator	
407.A10	Topic 10	a) Face bow types & Uses	
		b) Face bow transfer procedure	
BDS-	Unit A	Recording maxillomandibular relation	
407.A11	Topic 11	a) Vertical Relations	
		b) Centric Relation Records	
		c) Eccentric Relation Records	
		d) Lateral relation records	
BDS.407.	Unit A	Tooth Selection and Arrangement	
A12	Topic 12	a) Anterior teeth	
		b) Posterior teeth	
		c) Esthetic & Functional harmony	
BDS-	Unit A	Relating Inclination of teeth to concept of occlusion	
407.A13	Topic 13	a) Neutrocentric Concept	
		b) Balanced Occlusal Concept	
BDS-	Unit A	Trial Dentures	
407.A14	Topic 14		
BDS.407.	Unit A	Laboratory Procedures	
A15	Topic 15	a) Wax Contouring	
		b) Investing of Dentures	
		c) Preparing of mold	
		d) Preparing & packing acrylic resin	
		e) Processing of Dentures	
		f) Recovery of Dentures	
		g) Lab Remount procedures	
		h) Recovering of Complete Denture	
		i) Finishing and polishing of Complete Denture	
		j) Plaster Cast for Clinical Denture Remount Procedure	
BDS-	Unit A	Denture Insertion	
407.A16	Topic 16	a) Insertion procedures	
		b) Clinical errors	
		c) Correction Occlusal disharmony	
		d) Selective Grinding Procedures	
BDS-	Unit A	Treating Problems with associated denture use	
407.A17	Topic 17		

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		Beyond Boundari.
BDS.407.	Unit A	Treating Abused Tissues
A18	Topic 18	
BDS-	Unit A	Relining and rebasing of dentures
407.A19	Topic 19	
BDS-	Unit A	Immediate Complete dentures construction procedure
407.A20	Topic 20	
BDS.407. Unit A		The Single Complete Denture
A21	Topic 21	
BDS-	Unit A	Overdentures
407.A22	Topic 22	o verdentales
BDS-	Unit A	Dental Implants in Complete Denture
407.A23		Dental Implants in Complete Dentale
	Topic 23	
BDS.407.	Unit B	
В	REMOVAB	LE PARTIAL DENTURES
BDS.407.	Unit B	Diagnosis and Treatment planning of Removable Partial Denture Cases.
B1	Topic 1	Diagnosis and Treatment planning of removable Partial Beneare Cases.
BDS.407.	Unit B	Introduction, terminologies and Scope (patient selection/ treatment planning)
BD5.407.	Topic 2	introduction, terminologies and scope (patient selection/ treatment planning)
BDS.407.	Unit B	Components of Removable Partial Denture
		Components of Removable Partial Denture
B3	Topic 3	N : G
BDS.407.	Unit B	Major Connectors
B4	Topic 4	
BDS.407.		Minor Connectors
B5		Rest and Rest seats
BDS.407.	Unit B	Components of Removable Partial Denture
B6	Topic 5	A) Direct retainers
	1	B) Indirect Retainers
		C) Tooth Replacement
BDS.407.	Unit B	Principles of Removable Partial Denture Design
		Trinciples of Removable Fartial Denture Design
B7	Topic 6 Unit B	Cumusu and Dasian
BDS.407.		Survey and Design
B8	Topic 7	a) Surveyors
		b) Surveying
		c) Designing
DDC 407 II ': D		Mouth managetion and Master Cost
BDS.407. Unit B		Mouth preparation and Master Cast
B9	Topic 8	Lunguagia matarida and mara 1 C DDD
BDS.407. B10	Unit B Topic 9	Impression materials and procedures for RPD
BDS.407.E		Proliminary Javy relation and authoria try in form some antoniar real accessed to the
DD5.40/.E		Preliminary Jaw relation and esthetic try-in form some anterior replacement teeth
	Topic	
DD C 10==	10	
BDS.407.E		Laboratory procedures for framework construction
12	Topic 11	



DDC 407 D	II ' D	Beyond Boundarie
BDS.407.B	Unit B	Fitting the framework
13	Topic 12	
BDS.407.B	Unit B	Tri-in of the partial denture
14	Topic 13	
BDS.407.B	Unit B	Completion of the partial denture
15	Topic 14	
BDS.407.B	Unit B	Inserting the RPD
16	Topic 15	Inserting the RC B
	Unit B	Destingention observations
BDS.407.B		Postinsertion observations
17	Topic 16	
BDS.407.B	Unit B	Temporary acrylic Partial Dentures
18	Topic 17	
BDS.407.B	Unit B	Immediate RPD
19	Topic 18	
BDS.407.B	Unit B	RPD opposing Single Complete Denture
20	Topic 19	The Desire of th
BDS.407.B	Unit B	Maintenance phase
		Wiannenance phase
21	Topic 20	ENTIRE DARGET A DESCRIPTION
BDS-407 C	Unit C	FIXED PARTIAL DENTURES
BDS-407	Unit C	Introduction
C1	Topic 1	
BDS-407	Unit C	Fundamentals of Occlusion
C2	Topic 2	
BDS-407	Unit C	Articulators
C3		Attentions
	Topic 3	The standard allowing for a simple to all most and in a
BDS-407	Unit C	Treatment planning for single tooth restorations
C4	Topic 4	
BDS-407	Unit C	Treatment planning for the replacement of missing teeth including selection and
C5	Topic 5	choice of abutment teeth
BDS-407	Unit C	Fixed Partial denture Configurations
C6	Topic 6	
BDS-407	Unit C	Principles of tooth preparation
C7	Topic 7	
BDS-407	Unit C	Preparations for full veneer crowns
C8		1 reparations for full vehicle crowns
	Topic 8	Duonoustions for mortial voncer arguing
BDS-407	Unit C	Preparations for partial veneer crowns
C9	Topic 9	
BDS-407	Unit C	Provisional Restorations
C10	Topic 10	
BDS-407	Unit C	Fluid Control & Soft Tissue Management
C11	Topic 11	_
BDS-407	Unit C	Impressions
C12	Topic 12	
BDS-407	Unit C	Working Costs and Dies
		Working Casts and Dies
C13	Topic 13	W. D.
BDS-407	Unit C	Wax Patterns



C14	Topic 14	beyond boundari	
BDS-407	Unit C	Pontics and Edentulous Ridges	
C15	Topic 15		
BDS-407	Unit C	Esthetic Considerations	
C16	Topic 16		
BDS-407	Unit C	Finishing and Cementation	
C17	Topic 17		
BDS-407	Unit C	Topics to be covered in brief-	
C18	Topic 18	a) Solder joints and other connectors	
		b) All-Ceramic Restorations	
		c) Metal-Ceramic Restorations	
		d) Preparations of Intracoronal Restorations	
		e) Preparations for extensively damaged teeth	
		f) Preparations for periodontally weakened teeth	
		g) The functionally generated path technique	
		h) Investing and Casting	
		i) Resin-Bonded Fixed Partial Dentures	

		Attendance	Minimum 75% is Needed for both theory and clinical practical	
		Quizzes	Taken in every 3 months	
1.	Course evaluation	Presentations	Video Presentation	
1.	Course evaluation	Any Other	Project based learning, flip le	arning, Assignments
		Annual	Theory-100 Marks	
		Examination	Practical-100Marks	
	Text book/s*	8. Syllabus of Complete denture		Charles M. Heartwell Jr,
		9. Bouchers "Prosthodontic Treatment for		ArthurO.Rahn
2.		Edentulous Patients		Boucher
4.		10. Essentials	of Complete Prosthodontics	
		11. Mc. Craken's RPD		Sheldon winkler
		TED learning		
3.	Other References	EBSCOHOST		
		Various scientific	articles from various sources	



School: School of		Batch: 2020-2025
De	ental Sciences	
Pr	ogram:	BDS (Bachelor of Dental Surgery)
1	Course Code	BDS408
2	Course Title	PEDIATRIC & PREVENTIVE DENTISTRY
3	Credits	NA
4	Contact Hours (L-T-P)	65-0-200
	Course Type	Compulsory (CORE)
5	Course Objective	 Complete and comprehensive oral assessment of a child patient. Organise a treatment plan that will fulfill a childs behavior, preventive, restorative and interseptive orthodontic needs. Assess a pediatric patient, councel the parent/guardian and use appropriate behavior management effective communication strategies to make dental experience positive for children Perform and provide both preventive and therapeutic dental treatment for infants, children and adolescents including those with special health care needs and demonstrate professionalism and ethical practice in patient care clinics.
6	Course Outcomes	CO 408.1: Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general-state of health and also the bearing on physical and social well-being of the child patient. CO 408.2: Adequate knowledge of biological function and behavior of child in health and sickness as well as the influence of the natural and social environment on the state of health so far as it affects dentistry. CO 408.3: Able to diagnose and manage various common dental problems encountered in pediatric dental practice, keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible. CO 408.4: Able to communicate effectively with patient, parent or guardian.
7	Course Description	In Paediatric dentistry, the students should concentrate on clinical management, efficacy of preventive measures, treatment needs particularly for children with disabilities. In oral medicine and oral diagnosis, the student should receive instruction in various lesions, occurring in the oral cavity with particular reference to oral cancer.



8	Outline syllabus		
	BDS-408 A	Unit A	
	DDG 400 A 1	TT '4 A	
	BDS-408 A1	Unit A	Introduction To Pedodontics And Preventive Dentistry, Growth &
		Topic 1	Development, Development Of Occlusion, Dental Anatomy And Histology
	BDS-408 A2	Unit A	Dental Materials Used In Pediatric Dentistry
	DDS 100112	Topic 2	Bolliul Hauterials Code III I Culture Bolliustry
	BDS-408 A3	Unit A	Dental Radiology Related To Pedodontics, Oral Surgical Procedures
		Topic 3	In Children.
	BDS-408 B	Unit B	
	BDS-408 B1	Unit B	Dental Caries
	DDS 100 D1	Topic 1	
	BDS-408 B2	Unit B	Gingival & Periodontal Diseases In Children
		Topic 2	
	BDS-408 B3	Unit B	Pediatric Operative Dentistry
	Topic 3		
	BDS-408 C	Unit C	
	BDS-408 C1	Unit C	Child Psychology
		Topic 1	, , ,
	BDS-408 C2	Unit C	Dental Emergencies In Children & Their
		Topic 2	Management
	BDS-404 C2	Unit C	Behaviour Management
		Topic 3	
	BDS-408 D	Unit D	
		ORAL M	IEDICINE & THERAPEUTICS
	BDS-408 D1	Unit D	Pediatric Endodontics
		Topic 1	
	BDS-408 D2	Unit D	Traumatic Injuries In Children
		Topic 2	
	BDS-408 D3	Unit D	Preventive And Interceptive Orthodontics
		Topic 3	
	BDS-408 E		
	BDS-408 E1	Unit E	Dental Care Of Children With Special Needs

DDS-400 E		
BDS-408 E1	Unit E	Dental Care Of Children With Special Needs
	Topic 1	
BDS-408 E2	Unit E	Oral Habits In Children
	Topic 2	
BDS-408 E3	Unit E	Congenital Abnormalities In Children
	Topic 3	



		Attendance		Minimum 75% is Needed for both theory and clinical practical	
	Course evaluation	Quizzes		Taken in every 3 months	
1.		Presentations		Video Presentation	
		Any Other		Project based learning, Assignments	
		Annual		Theory-100 marks	
		Examination		Practical-100 marks	
	Text book/s*	SR.	Author		Title
		1	Pinkham, JR		Pediatric Dentistry infancy through adolescence
		2	Mc Donald, RE		Dentistry for the child and adolescent
2.		3	Ghai, OP		Ghai essential paediatrics
4.		4	Goran Koch		Pedodontics Clinical Approach
		5	Welbury		Pediatric Dentistry
		6	Cameron, Angus		Handbook of pediatric dentistry
		7	Stephen Wei		Pediatric Dentistry Total Patient Care
3.	Other References	TED learning			
	Other Kelerences	Various scientific articles from various sources			