

وزارة التعليم العالي والبحث العلمي
جهاز الإشراف والتقويم العلمي
دائرة ضمان الجودة والاعتماد الأكاديمي

استمارة وصف البرنامج الأكاديمي للكليات والمعاهد

الجامعة :

الكلية/ المعهد: كلية الرافدين الجامعة

القسم العلمي : طب الاسنان

تاريخ ملء الملف : ٢٠١٦/١٠/١٩

التوقيع :

اسم رئيس القسم : د.محمود جواد ابو الشعير

التاريخ :

التوقيع :

اسم معاون القسم : د.غالب الجاسم

التاريخ :

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي:

التاريخ

التوقيع

مصادقة السيد العميد

وصف البرنامج الأكاديمي

يوفر وصف البرنامج الأكاديمي هذا إيجازاً مقتضياً لأهم خصائص البرنامج ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنًا عما إذا كان قد حقق الاستفادة القصوى من الفرص المتاحة . ويصاحبه وصف لكل مقرر ضمن البرنامج

١. المؤسسة التعليمية	كلية الرافدين الجامعة
٢. القسم العلمي / المركز	قسم طب الاسنان
٣. اسم البرنامج الأكاديمي او المهني	طب الاسنان
٤. اسم الشهادة النهائية	البكالوريوس
٥. النظام الدراسي : سنوي / مقررات / أخرى	سنوي
٦. برنامج الاعتماد المعتمد	
٧. المؤثرات الخارجية الأخرى	دورات تدريبية للطلبة لتطوير المهارات المهنية للطلبة/تدريب صيفي لعامين دراسيين
٨. تاريخ إعداد الوصف	٢٠١٦/١٠/١٩

٩. أهداف البرنامج الأكاديمي: تأسس القسم عام ٢٠٠٩ وتخرج من القسم ٣ دورات وبمؤهلات جيدة وكفاءه عاليه وبمستوى علمي ومهني جيد وتم تاهيل وتدريب الطلبة في عيادات حديثه الاجهزه والمستلزمات اضافته الى نوعيه المواد المستخدمه في طب الاسنان ،اد هناك عيادات متخصصه في حشوات الاسنان وعيادات حشوات الجذور والتيجان والجسور اضافته لعياده الجراحه وامراض اللثه والتقويم وطب الاسنان الوقائي وطب اسن ان الاطفال بالاضافه الى عياده التشخيص.

10. مخرجات البرنامج المطلوبة وطرائق التعليم والتعلم والتقييم : يهدف قسم طب الاسنان ان يكون بوابه للعلم والمعرفه في مجال الصحة الفمويه والاسنان ومقرا للتعلم الطبي الحديث المبني على المخرجات التعليميه وفق اعلى معايير الج وده التي تحفر اعضاء هيئه التدريس والطلاب للابداع والتميز المعرفي من خلال المؤتمرات العلميه الدوليه التي يقيمها القسم بمشاركة اشهر اطباء الاسنان العالميين.

أ- الأهداف المعرفية

- ١- تعريف الطالب بالمفاهيم والمصطلحات العلمية وامكانية تمثيلها في بناء معرفي.
- ٢- تنمية الفكر العلمي لدى الطلبة من خلال تزويدهم بأحدث النظريات العلمية والتقنيات الحديثة وانجازات الباحثين.
- ٣- تنمية قوة الملاحظة وحب الاستطلاع لدى الطالب من خلال تزويدهم بالتجارب العلمية والتفاعلية من اجل بناء قاعدة متينة للتعامل مع المرضى.
- ٤- اكساب الطالب مهارات التعامل مع الاجهزة والادوات والتقنيات المستخدمة في علاج الاسنان وجراحة الوجه والفكين.

ب - الأهداف المهاراتية الخاصة بالبرنامج

- ب ١ -تزويد الخريجين بالمعرفة المتوازنة المدروسة وتعليمهم تحمل المسؤولية الاخلاقية في المهن المتعلقة بالعناية الصحية.
- ب ٢ - توفير المعلومات النظرية والمهارات العملية الحديثة في كافة فروع طب الاسنان لخلق طبيب اسنان ناجح قادر على معالجة المرضى وتلبية احتياجات المواطنين.
- ب ٣ - ان تصبح الكلية مركزاً تعليمياً يستند على البحث والتطبيق.
- ب ٤- تأكيد الالتزام بالتعلم مدى الحياه وذلك للتواصل مع التطورات المتسارعة في علوم طب الاسنان وذلك للمحافظة على كفاءة المتخرجين.

طرائق التعليم والتعلم

- ١ - طريقة القاء المحاضرات
- ٢ -مختبرات عن طريق data show
- ٣ تزويد الطلبة بمحاضرات على موقع الكلية
- ٤ Work shop (ورش العمل)
- ٥ (learning technologies on campus) التعليم الالكتروني داخل الحرم الجامعي
- ٦ (experiential learning) التعلم التجريبي
- ٧ (application learning) التعلم التطبيقي
- 8-مجاميع طلابية (team project)

طرائق التقييم

- ١ الاختبارات العملية المختبرية
- ٢ الاختبارات العملية مانيكان
- ٣ الاختبارات العملية على المريض
- ٤ الاختبارات النظرية
- ٥ الاختبارات الشفوية
- ٦ للتقارير والدراسات
- ٧ للتقارير والدراسات

ج- الأهداف الوجدانية والقيمية

- ج ١- مهارة التفكير حسب قدرة الطالب (thinking ability) الهدف من هذه المهارة هو ان يعتقد الطالب بما هو ملموس وفهم متى وماذا وكيف يجب يفكر ويعمل على تحسين القدرة على التفكير بشكل معقول.
- ج ٢- مهارة التفكير العالية الهدف من هذه المهارة هو تعليم التفكير جيداً قبل اتخاذ القرار الذي يحدد مسار حياة الطالب.
- ج ٣- استراتيجيات التفكير الناقد بالتعلم (critical thinking) هو مصطلح يرمز لاعلى مستويات التفكير

والتي تهدف الى طرح مشكلة ما ثم تحليلها منطقيا للوصول الى الحل المطلوب.
ج ٤- مهارة اتخاذ القرار الصائب لمصلحة المريض والمبني على التفكير المنطقي.

طرائق التعليم والتعلم

- ١ - الشرح والتوضيح
- ٢ - التجارب في المختبرات
- ٣ - المحاضرة
- ٤ - التعلم الذاتي

طرائق التقييم

- ١ - الاختبارات العملية المختبرية
- ٢ - الاختبارات العملية مانيكان
- ٣ - الاختبارات العملية على المريض
- ٤ - الاختبارات النظرية
- ٥ - الاختبارات الشفوية
- 6- التقارير والدراسات

د -المهارات العامة والتأهيلية المنقولة (المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي).

- ١د- تنمية قدرة الطالب على التعامل مع الاجهزة المختبرية الحديثة.
- ٢د - تنمية قدرة الطالب على التعامل مع الانترنت.
- ٣د - تنمية قدرة الطالب على التعامل مع الوسائل المتعددة في تحصيل المعلومات.
- ٤د -تطوير قدرة الطالب على الحوار والمناقشة.

طرائق التعليم والتعلم

- ١-ادارة المحاضرة والمختبرات العملية على نحو يشعر الطالب باهمية تنظيم الوقت (time management) .
- ٢-تكليف الطالب ببعض الانشطة والواجبات البيتية.
- ٣-تخصيص نسبة من الدرجة للانشطة اللاصفية.

طرائق التقييم

- ١-الاختبارات العملية
- ٢ - الاختبارات النظرية
- ٣ - التقارير والدراسات

١١ - بنية البرنامج: وضعت مفردات المنهاج الدراسية للقسم من قبل لجان مختصة وبما يتوافق مع التقنيات الحديثة في هذا الاختصاص لاعداد كوادر طبية قادرة على فحص ومعالجة المرضى لكافة فروع طب الاسنان لخدمة المواطنين . يخضع القسم لنظام اختبار الرصانه العلمية مع الكليات الحكومية وبنفس الاختصاص وقد اجري اختبار الرصانه العلمية للعام ٢٠١٥/٢٠١٦ .

المرحلة الاولى

عدد الوحدات	أسماء المواد بالانكليزية	أسماء المواد بالعربية
10	Medical Chemistry	كيمياء طبية
6	Medical Physics	فيزياء طبية
6	Medical Biology	أحياء طبية
5	Dental Anatomy	تشريح أسنان
5	Computer Science	علوم حاسبات

المرحلة الثانية

عدد الوحدات	أسماء المواد بالانكليزية	أسماء المواد بالعربية
8	Prosthodontics	صناعة أسنان
5	Dental Material	المادة السنية
4	Oral Histology	أنسجة فم
6	General Histology	أنسجة عامة
6	Physiology	فسلجة
8	Anatomy	تشريح
4	Biochemistry	كيمياء حيائية

المرحلة الثالثة

عدد الوحدات	أسماء المواد بالانكليزية	أسماء المواد بالعربية
8	Prosthodontics	صناعة أسنان
7	Restorative Dentistry	معالجة أسنان
4	Oral Surgery	جراحة فم
4	Community Dentistry	طب أسنان مجتمع
6	Pharmacology	علم الأدوية
6	General Pathology	علم الأمراض العام
6	Micro Biology	أحياء مجهرية
5	Dental Radiology	اشعة الاسنان

المرحلة الرابعة

عدد الوحدات	أسماء المواد بالانكليزية	أسماء المواد بالعربية
8	Prosthodontics	صناعة أسنان
٤	Restorative Dentistry	معالجة أسنان
٥	Endodontic	حشوات الجذور
٥	Crown & Bridge	التيجان والجسور
10	Oral Surgery	جراحة فم
5	Periodontics	أمراض وجراحة ماحول الأسنان
5	Orthodontics	تقويم الأسنان
7	Oral Pathology	أمراض الفم
5	General Medicine	الطب العام
5	General Surgery	جراحة عامة
2	Pedodontics	طب اسنان اطفال

المرحلة الخامسة

عدد الوحدات	أسماء المواد بالانكليزية	أسماء المواد بالعربية
8	Prosthodontics	صناعة أسنان
8	Restorative Dentistry	معالجة أسنان
8	Oral Surgery	جراحة الفم
5	Oral Medicine	طب الفم
8	Periodontology	امراض اللثة وما حول الاسنان
5	Pedodontics	طب أسنان الأطفال
4	Orthodontics	تقويم أسنان
5	Preventive Dentistry	طب الاسنان الوقائي

١٠. التخطيط للتطور الشخصي

Global skill

- To able to speak and understand other languages
- To be able to influence and convince others ,and to discus and reach agreement

Leadership

- To be able to motivate and direct others

Independence

- To be able to accept responsibility for his own views and actions
- To be able to work under his own direction and initiative.

١١. معيار القبول (وضع الأنظمة المتعلقة بالالتحاق بالكلية أو المعهد)

نظام القبول المركزي

١٢. أهم مصادر المعلومات عن البرنامج

- الموقع الإلكتروني للكلية والجامعة
- دليل الجامعة
- الكتب والمصادر العلمية الخاصة بالقسم

مخطط مهارات المنهج
يرجى وضع اشارة في المربعات المقابلة لمخرجات التعلم الفردية من البرنامج الخاضعة للتقييم

مخرجات التعلم المطلوبة من البرنامج

السنة / المستوى	اسم المقرر	أساسي أم اختياري	الأهداف المعرفية				الأهداف المهاراتية الخاصة بالبرنامج				الأهداف الوجدانية والقيمية				المهارات العامة والتأهيلية المنقولة) المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي)			
			أ ١	أ ٢	أ ٣	أ ٤	ب ١	ب ٢	ب ٣	ب ٤	ج ١	ج ٢	ج ٣	ج ٤	د ١	د ٢	د ٣	د ٤
السنة الاولى	كيمياء طبية	اساسي	*	*	*	*		*		*	*	*	*		*	*	*	*
	فيزياء طبية	اساسي	*	*	*	*		*		*	*	*	*		*	*	*	*
	أحياء طبية	اساسي	*	*	*	*		*		*	*	*	*		*	*	*	*
	تشريح أسنان	اساسي	*	*	*	*		*		*	*	*	*		*	*	*	*
	علوم حاسبات	اساسي	*	*	*	*				*	*	*	*		*	*	*	*
السنة الثانية	صناعة أسنان	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	المادة السنية	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	أنسجة فم	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	أنسجة عامة	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	فسلجة	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	تشريح	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	كيمياء حيائية	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
السنة الثالثة	صناعة أسنان	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	معالجة أسنان	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	جراحة فم	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	طب أسنان مجتمع	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	علم الأدوية	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	علم الأمراض العام	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	أحياء مجهرية	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	اشعة الأسنان	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
السنة الرابعة	صناعة أسنان	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	معالجة أسنان	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	حشوات الجذور	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*
	التيجان والجسور	اساسي	*	*	*	*		*	*	*	*	*	*		*	*	*	*

*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	جراحة فم	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	أمراض وجراحة ماحول الأسنان	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	تقويم الأسنان	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	أمراض الفم	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	الطب العام	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	جراحة عامة	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	طب اسنان اطفال	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	صناعة أسنان	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	معالجة أسنان	السنة الخامسة
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	جراحة الفم	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	طب الفم	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	امراض اللثة وما حول الاسنان	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	طب أسنان الأطفال	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	تقويم أسنان	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي	طب الاسنان الوقائي	
*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	اساسي		

Grade	Week	Syllabus	Hours
5 th . Orthodontics	1 st .	Orthodontic diagnosis and treatment planning	1
	2 nd .	Diagnostic aids	1
	3 th .	cephalometrics	1
	4 th .	Preventive Orthodontic Treatment	1
	5 th .	Interceptive Orthodontic Treatment	2
	6 th .	Oral habits and Their management	2
	7 th .	Methods of Gaining Space in Orthodontics	1
	8 th .	Extraction in Orthodontics	1
	9 th .	Space Analysis	1
	10 th .	Types Of Anchorage and Microimplant Anchorage in Orthodontics	1
	11 th .	Corrective Orthodontic Treatment	4
	12 th .	Incisal overbite and crossbite	2
	13 th .	Treatment of adults	1
	14 th .	Cleft lip and palate	1
	15 th .	Principles of Fixed Appliance Treatment	1
	16 th .	Steps of insertion of Orthodontic Removable Appliance	1
	17 th .	Development of Occlusion	2
	18 th .	Management of impacted teeth	1
	19 th .	Retention	1
5 th . Crown & Bridge	1 st .	Fixed partial denture	2
	2 nd .	Purpose of construction of fixed partial denture	2
	3 th .	Clinical consideration for bridge construction	2
	4 th .	Impression material and procedure	2
	5 th .	Interocclusal record	2
	6 th .	Disinfection	2
	7 th .	Provisional restoration	3
	8 th .	Pontic	2
	9 th .	Failure in crown and bridge	3
	10 th .	Try in	2
	11 th .	Shade selection	2
	12 th .	Cementation	2
	13 th .	Dental porcelain	3
	1 st .	Endodontic radiography	2
	2 nd .	Pharmacology for endodontics	2
	3 th .	Engine – Driven Instruments	3
	4 th .	Restoration of endodontically treated teeth.	4

5th. Endodontics	5th.	The perio-endo lesion	1
	6th.	Endodontic in children.	1
	7th.	Surgical endodontics.	1
	8th.	Endodontic mishaps	3
	9th.	Tooth discoloration and bleaching	2
	10th.	Endodontic emergency treatment.	1
	11th.	Root resorption.	1
	12th.	Single- visit endodontics.	2
	13th.	Apical third filling	1
	14th.	Retreatment in Endodontics	3
	15th.	Digital technologies in endodontic treatment	2
	16th.	Ethics in endodontics.	1
5th. Oral Medicine	1st.	Tempromandibular joint/part1	1
	2nd.	Tempromandibular joint/part2	1
	3th.	Salivary gland diseases	2
	4th.	Orofacial pain	2
	5th.	Diabetes/& Thyroid glands diseases/Adrenal insufficiency	1
	6th.	Cardiovascular diseases	1
	7th.	Infectious diseases	1
	8th.	Pulmonary diseases	1
	9th.	Disorders of Red Blood Cells	1
	10th.	Disorders of white Blood Cells	1
	11th.	Neuro Muscular disorders	1
	12th.	Oral precancerous lesion , conditions & Oral carcinoma	1
	13th.	The principles of diagnosis	1
	14th.	Laboratory investigations in dentistry	1
	15th.	white and red lesion of the oral mucosa	1
	16th.	–Continued	1
	17th.	oral ulceration and related disease	1
	18th.	ulcerative and visiculoballous lesion	1
	19th.	oral pigmentation	1
	20th.	Drugs in dentistry (anti –infective drugs)	1
	21th.	Continued	1
	22th.	Continued	1
	23th.	Adrenocorticosteroids	1
	24th.	Continued	1
	25th.	Analgesics	1
	26th.	tongue disorder	1
	27th.	Continued	1
	1st.	Preventive dentistry(introduction)	1

5th. Preventive Dentistry	2nd.	Dental caries	1
	3th.	Preventive of dental caries	1
	4th.	Fluoride in dentistry	1
	5th.	Systemic fluoridation(history)	1
	6th.	Water fluoridation	1
	7th.	Fluoride theories	1
	8th.	Fluoride supplements	1
	9th.	Safety of water fluoridation	1
	10th.	Topical fluoride therapy(mechanisms)	1
	11th.	Type of topical fluoride therapy	1
	12th.	Toxicity of topical fluoride	1
	13th.	Saliva	1
	14th.	Saliva and dental caries	1
	15th.	Microbiological aspect of dental caries	1
	16th.	Oral immune system in relation to dental caries	1
	17th.	Streptococci	1
	18th.	Lactobacilli	1
	19th.	Immunization of dental caries	1
	20th.	Diet	1
	21th.	Diet and dental caries	1
	22th.	Dietary counseling	1
	23th.	Nutrition and dental caries	1
	24th.	Nutrition and periodontal disease	1
	25th.	Fissure sealant(history)	1
	26th.	Uses of fissure sealants	1
	27th.	New approach in preventive dentistry	1
	28th.	Uses of laser in dentistry	1
	29th.	Prevention of aging dentition	1
	30th.	Prevention of periodontal disease	1
5th. Oral Surgery	1st.	Paranasal sinus	1
	2nd.	Sinusitis	1
	3th.	Dental implant	3
	4th.	Laser	1
	5th.	Cryosurgery	1
	6th.	Facial pain	2
	7th.	Maxillo-facial trauma	5
	8th.	Oral cancer	4
	9th.	Orthognathic	2
	10th.	Salivary gland	2
	11th.	Temporomandibular joint	3
	1st.	Retention Support &Stability	1
	2nd.	Retention, Support &Stability(cont.)	1
	3th.	Posterior Palatal Seal Determination	1
	4th.	Posterior Palatal Seal Determination(cont.)	1
	5th.	Neutral Zone	1
	6th.	Neutral Zone (cont.)	1
	7th.	Occlusion Of Complete Denture	1
	8th.	Occlusion Of Complete Denture(cont.)	1
	9th.	Occlusion Of Complete Denture (cont.)	1
	10th.	Insertion Of Complete Denture	1

5th. Prosthodontics	11th.	Insertion Of Complete Denture (cont.)	1
	12th.	Post insertion problems	1
	13th.	Post insertion problems(cont.)	1
	14th.	Oral mucosal Lesions induced by removable dentures	1
	15th.	Oral mucosal Lesions induced by removable dentures (cont.)	1
	16th.	Relining and Rebasing	1
	17th.	Relining and Rebasing(cont.)	1
	18th.	Alveolar ridge atrophy	1
	19th.	Alveolar ridge atrophy (cont.)	1
	20th.	Immediate denture	1
	21th.	Immediate denture (cont.)	1
	22th.	Immediate denture (cont.)	1
	23th.	Single complete denture	1
	24th.	Single complete denture(cont.)	1
	25th.	Overdenture	1
	26th.	Overdenture (cont.)	1
	27th.	Dental Implant	1
	28th.	Dental Implant (cont.)	1
	29th.	Maxillofacial Prosthetic	1
	30th.	Maxillofacial Prosthetic(cont.)	1
5th. Periodontology	1st.	Eamination of patient with periodontal disease.	2
	2nd.	Advances in periodontal disease diagnosis.	2
	3th.	Cause related phase.	2
	4th.	Corrective phase	2
	5th.	Maintenance phase	1
	6th.	Furcation involvement.	2
	7th.	Periodontics & other fields of dentistry.	2
	8th.	Periimplantitis.	2
	9th.	Maintenance of implant.	1
	10th.	Epidemiology of periodontal disease.	2
	11th.	Trauma from occlusion.	2
	12th.	GTR (Guided tissue regeneration).	2
	13th.	General immunity.	2
	14th.	Immunity & Periodontal disease.	2
	15th.	Laser in periodontology.	1
	16th.	Periodontic treatment for medically compromised patient.	2
5th. Pedodontics	1st.	-Diagnosis & treatment plan	1
	2nd.	-Radiographic techniques	2
	3th.	-psychological management of children behavior	3
	4th.	- Morphology of primary teeth	1

	5 th .	-Treatment of Deep caries, vital pulp exposure, and pulpless teeth (pediatric endodontic)	3
	6 th .	- Eruption of human dentition	3
	7 th .	-Extraction techniques	1
	8 th .	- local anesthesia for the child & adolescent	1
	9 th .	-Space maintainer	2
	10 th .	-Developmental disturbances of the teeth	2
	11 th .	Manag -Treatment of disabled patients	1
	12 th .	-Restorative dentistry	1
	13 th .	-Dental trauma	2
	14 th .	-Management of the medically compromised patients	2
	15 th .	-Gingival & periodontal disease in children:	3
	16 th .	-Nutritional considerations of the pediatric dental patient	2
4 th . Periodontology	1 st .	Introduction to the periodontium and terminology	1
	2 nd .	Anatomy of the periodontium	3
	3 th .	Microbial dental plaque	2
	4 th .	Dental calculus	1
	5 th .	Pathogenesis of periodontal diseases	2
	6 th .	Histopathological stages of the gingival inflammation	1
	7 th .	Host defense	1
	8 th .	Periodontal pocket	1
	9 th .	Bone destruction in periodontal diseases	1
	10 th .	Classifications of periodontal diseases	2
	11 th .	Gingival crevicular fluid (GCF)	1
	12 th .	Dentin hypersensitivity	1
	13 th .	Tooth mobility	1
	14 th .	Antiseptic & antibiotics in the treatment of the periodontal diseases	2
	15 th .	Prevention of periodontal diseases	1
	16 th .	Introduction to the treatment of periodontal diseases	3
4 th . Endodontics	1 st .	Introduction & history.	2
	2 nd .	Diagnosis and treatment planning:	2
	3 th .	Basic instrumentation in endodontics	3
	4 th .	Sterilization	1
	5 th .	Endodontic entries.	4

	6 th .	Rubber dam	1
	7 th .	Determination of working length	2
	8 th .	Preparation of the root canal system	5
	9 th .	Intra-canal medications.	2
	10 th .	Irrigation	1
	11 th .	Root canal fillings.	5
	12 th .	Restoration of endodontically treated teeth	2
4 th . Crown & Bridge	1 st .	Introduction & Definitions	1
	2 nd .	Crown Types, Indication & Contraindications	1
	3 th .	Finishing Line	2
	4 th .	Principles of crown and bridge preparation	2
	5 th .	Full veneer crown preparation (full metal)	2
	6 th .	Full veneer crown preparation (MCR&FCC)	2
	7 th .	Post Crown Preparation	2
	8 th .	Partial Veneer Crown (Three Quarter Crown)	1
	9 th .	Indirect laminate veneer preparation	2
	10 th .	Clinical consideration before bridge construction	2
	11 th .	Special problems during FPD prep. Canine replacement, Cantilever F.P.D. & tilted molar	2
	12 th .	Pontics and pontic designs	2
	13 th .	Types of bridges	1
	14 th .	Bridge designs (FPD Configurations)	2
	15 th .	Impression materials and techniques	2
	16 th .	Gingival retraction techniques	2
	17 th .	Preparations for intracoronal restoration	2
4 th . Orthodontics	1 st .	Introduction	4
	2 nd .	Growth and development	4
	3 th .	Deciduous and permanent dentition	2
	4 th .	Development of occlusion	2
	5 th .	Etiology of malocclusion	6
	6 th .	Tooth movement	3
	7 th .	Orthodontic appliances	9
	1 st .	Diagnosis and treatment plan for RPD	1
	2 nd .	To be continued Diagnosis and treatment plan for RPD	1
	3 th .	Mouth preparation and abutment tooth preparation for RPD	1
	4 th .	To be continued Mouth	1

4 th . Prosthodontics		preparation and abutment tooth	
	5 th .	Impression materials and techniques for R PD	1
	6 th .	To be continued Impression materials and techniques for R PD	1
	7 th .	Support in FEE RPD & altered cast technique	1
	8 th .	To be continued Support in FEE RPD & altered cast technique	1
	9 th .	Frame work try in and occlusion in RPD	1
	10 th .	Insertion and adjustments RPD	1
	11 th .	To be continued Insertion and adjustments RPD	1
	12 th .	Anatomical land mark Osteology	1
	13 th .	Anatomical land mark Myology	1
	14 th .	Prep prosthetic surgery	1
	15 th .	To be continued Prep prosthetic surgery	1
	16 th .	Diagnosis and treatment plane CD	1
	17 th .	To be continued Diagnosis and treatment plane CD	1
	18 th .	Impression for CD	1
	19 th .	To be continued Impression for CD	1
	20 th .	TMJ and mandibular movement	1
	21 th .	Jaw relation-vertical	1
	22 th .	Jaw relation-horizontal	1
	23 th .	Try in stage in CD	1
	24 th .	Insertion of CD	1
	25 th .	Adjustments of CD	1
	26 th .	relining and rebasing in RPD	1
	27 th .	To be continued relining and rebasing in RPD	1
	28 th .	Repair and addition of tooth in RPD	1
	29 th .	Flexible Denture	1
	30 th .	Differences between two main types of RPD	1
4 th . Oral Pathology	1 st .	Biopsy	1
	2 nd .	Dental caries	1
	3 th .	Pulpitis	1
	4 th .	Periapical lesions	1
	5 th .	Inflammatory diseases of the bone	1
	6 th .	Fibro-Osseous lesions	1
	7 th .	Giant cells lesions	1
	8 th .	Metabolic & Genetic bone diseases	1
	9 th .	Bone neoplasms/Benign	1
	10 th .	Malignant bone neoplasms	1
	11 th .	Odontogenic cysts	1
	12 th .	Odontogenic tumor	1
	13 th .	Developmental Defects of oral & maxillofacial region/part1	1

	14 th .	Developmental Defects of oral & maxillofacial region/part2	1
	15 th .	Developmental cysts	1
	16 th .	Oral mucosal lesions/part 1	1
	17 th .	Oral mucosal lesions/part 2	1
	18 th .	Oral mucosal lesions/part 3	1
	19 th .	Epithelial pathology (part 1)	1
	20 th .	Epithelial pathology (part 2)	1
	21 th .	Connective tissue diseases/part1	1
	22 th .	Connective tissue diseases/part2	1
	23 th .	Salivary glands	1
4th. General Surgery	1 st .	Introduction to surgery	1
	2 nd .	IV Fluids and Parenteral Nutrition	2
	3 th .	Bleeding & Blood Transfusion	2
	4 th .	Surgical Wounds: Healing, Complications & Management	3
	5 th .	Common Surgical Conditions: Ulcer, Fistula, Sinus	3
	6 th .	Hernia Types & Management	2
	7 th .	Burn Injury	1
	8 th .	Common Surgical Infections & Diabetic Foot	3
	9 th .	Surgical Conditions of Oral Cavity	1
	10 th .	Thyroid & Parathyroid Surgical Conditions	2
	11 th .	Surgery of the Digestive System	3
	12 th .	Musculoskeletal Disorders	2
	13 th .	Surgical Diseases of Breast	1
	14 th .	Ear, Throat, Nose (ENT) Surgery	2
	15 th .	Eye Surgery	1
4th. General Medicine	1 st .	Introduction to Medicine: Concept of Health & Disease, and Disease prevention	1
	2 nd .	Approach to Patient (History & clinical examination)	1
	3 th .	Nutrition and Health	1
	4 th .	Disorders of Respiratory System	2
	5 th .	Disorders of Gastrointestinal System	2
	6 th .	Disorders of Hepatobiliary System	1
	7 th .	Diabetes Mellitus & other important Endocrine Disorders	1

	8 th .	Disorders of Cardiovascular System	1
	9 th .	Hypertension	1
	10 th .	Hematological Disorders	1
	11 th .	Blood Born Infections	1
	12 th .	Disorders of Renal System	1
	13 th .	Disorders of nervous System	1
4 th . Oral Surgery	1 st .	Pyogenic infections of the Soft tissues around the jaws	2
	2 nd .	Spread of Infections of the Soft Tissues to the Fascial Spaces of the Face and Neck	2
	3 th .	Dental management of patient with bleeding disorders	2
	4 th .	Blood Dyscrasias and Dental Management	2
	5 th .	Dental Management of Patients with Gastrointestinal Tract Diseases (GIT)	2
	6 th .	Liver Diseases: Dental Management of Patient with Liver Diseases	2
	7 th .	Thyroid Diseases and Dental Management	2
	8 th .	Cardiovascular Diseases and Dental Management	2
	9 th .	Pulmonary Diseases and Dental Management (Diseases of the Respiratory System):	2
	10 th .	Diabetes Mellitus and dental management	2
	11 th .	Adrenal Insufficiency and Dental managements	2
	12 th .	Renal Diseases and Dental Management (Chronic Kidney Disease and Renal Failure	2
	13 th .	AIDS (Acquired Immune Deficiency Syndrome) and Dental Significance	2
	14 th .	Some sexually Transmitted Diseases of Dental Significance (Syphilis Genital Herpes)	2
	15 th .	Inflammatory Diseases of Jaw Bones	2
	16 th .	Benign Cysts of the Jaw Bones	2
	17 th .	Biopsy in Oral Surgery	2
	18 th .	Apicectomy: Endodontic surgery, Periapical surgery, Root resection, Root Amputation	2
	1 st .	(1+2)–pedodontics–eruption–types of dentition.	1
	2 nd .	Continued	1
	3 th .	3– local and systemic causes of delayed eruption	1
	4 th .	(4+5)–devlopment and morphology of primary teeth	1
	5 th .	clinical consideration of teeth morphology	1
	6 th .	Continued	1
	7 th .	differences between deciduous and permanent teeth and function of primary teeth	1
	8 th .	dental anamolies	1

4th. Pedodontics	9th.	developmental alterations in structure of teeth	1
	10th.	dental caries definition and classification	1
	11th.	dental caries etiology/theories of dental caries	1
	12th.	early childhood caries (nursing bottle caries	1
	13th.	dental restorations in pediatric dentistry	1
	14th.	cavity preparation in primary teeth	1
	15th.	types of dental materials used in restorative dentistry	1
	16th.	preventive resin restoration	1
	17th.	stainless steel crowns or chrome steel crown	1
	18th.	treatment of deep caries ,indirect pulp therapy , vital pulp exposure (direct pulp therapy).	1
	19th.	pulpotomy	1
	20th.	reaction of the pulp to various capping material	1
	1st.	Morphology, Ultra structures, physiology and metabolism of microorganisms:- -Eukaryotic & Prokaryotic cells -Cell structure of prokaryotes -Comparison between G+ve & G-ve cell wall -Microbial growth, growth curve -Metabolism of microorganisms Molecular biology & bacterial genetics	5
	2nd.	Sterilization and Disinfection	2
	3th.	Antibiotic and chemotherapy:- -Antibiotic, sources -Mode of action of antibiotic -Anti-microbial sensitivity tests -Bacterial resistance -Prophylactic use	2
	4th.	Host-parasite relation ship & Nosocomial infection -Symbiosis, Commensalism, Amphibiosis, Antagonistic -Sources of infection in hospital -Post-operative wound infection, burns infections	2
	5th.	Immunology -Non- Specific defense mechanism -Natural, acquired, active, passive immunity -Antigens, Immunogens, Immunogenicity, Antigenic determine -Specific immune system, humoral & cellular components system -Antigen- antibody reaction -Serological tests	8
	6th.	Streptococci -Pyogenic Streptococci -Lancefield group -Pathogenesis of streptococci -Epidemiology, treatment and prevention -Viridans streptococci -Pneumococci	2
	7th.	Staphylococci --Virulence factors --Pathogenesis -Epidemiology, treatment and prevention	2
	8th.	G- negative diplococcic & vellowella Nesseria gonorrhea, N. meningitis	2
	9th.	Corynebacterium Diphtheriae & Diphtheroids	1
	10th.	Mycobacterium -Tuberculosis & Lepae	1

3 th . Micro Biology	11 th .	Lactobacilli & Actinomyces	2
	12 th .	Bacillus and clostridium - <u>B. subtilis</u> , <u>B. anthracis</u> <u>C. perfringens</u> , <u>C. tetani</u> , <u>C. botulinum</u>	۳
	13 th .	Enterobacteriaceae -E.coli, Salmonella, Shigella, Enterobacter, Klebsiella, proteus, Yersinia	4
	14 th .	Brucella, Haemophilus, Vibrio	1
	15 th .	- Agreggatibacter, porphyromonas, prevotella, Bacteroids	2
	16 th .	Fusiforms and Spirochaetes -Fusobacterium, leptotrichia -Treponema	2
	17 th .	Mycoplasma, Chlamydia and Rickettsiae	2
	18 th .	Ecology of oral flora -Indigenous flora -Supplemental flora -Transient flora -Sources of oral bacteria -Factors modulating growth of bacteria in the oral cavity	2
	19 th .	Microbiology of dental caries -Dental plaque & plaque metabolism -cariogenic microorganisms -Mutans Streptococci -Lactobacilli -Actinomyces -Microbial colonization -Caries prevention -Antibacterial factors in saliva -Vaccination against dental caries	3
	20 th .	Microbiology of endodontics and periodontal diseases -source of infection -Porphyromonas, prevotella, Aggregatobacter -specific & non specific plaque hypothesis - method for isolation bacteria from periodontal pockets and endodontics specimens.	4
	21 th .	Virology -general structure of viruses -classification -viral replication -Isolation & diagnosis -Oral virology	5
	22 th .	- Oral mycology -Fungal cells -classification -Candida	1
	23 th .	Oral parasitology -Introduction, epidemiology, transmission -E.histolytica, E.gingivalis, T.tenax	1
	24 th .	Oral manifestation of systemic diseases Typhoid fever, hepatitis, AIDS, syphilis, T.B., fungal infection, cholera	1
	1 st .	Introduction.	1
	2 nd .	Instruments and equipment's used for tooth preparation.	1
	3 th .	Powered cutting equipment.	1
	4 th .	Management of dental caries in enamel and dentin, classification, diagnosis, prevention, and treatment.	1

3th. Restorative Dentistry	5th.	Principles of Cavity Preparation.	1
	6th.	Class I Cavity Preparation for amalgam.	1
	7th.	Class II Cavity Preparation for Amalgam.	1
	8th.	Class V and CL IIIcavity preparation for amalgam.	1
	9th.	Liners and bases.	1
	10th.	Dental amalgam.	1
	11th.	Matrix band and retainer.	1
	12th.	Dental Pins.	1
	13th.	Complicated Cavities for Amalgam.	1
	14th.	Moisture management.	1
	15th.	Enamel, Dentin, and Pulp; biological consideration.	1
	16th.	Defense mechanism of dentin and pulp against injury.	1
	17th.	Pulp irritants.	1
	18th.	Reaction of the pulp to different operative procedures.	1
	19th.	Inflammatory conditions of the pulp.	1
	20th.	Management of deep seated carious lesion.	1
	21th.	Pulp Capping Materials.	1
	22th.	New pulp capping material.	1
	23th.	Anterior cavity preparation (Class III, Class IV and Class V).	1
	24th.	Class IV tooth preparation.	1
	25th.	Esthetic materials for direct anterior restorations.	1
	26th.	Composite curing systems.	1
	27th.	Development of dental adhesive systems.	1
	28th.	Dental adhesion.	1
	29th.	Direct posterior esthetic restoration.	1
	30th.	Application techniques of direct composite resins.	1
	31th.	Indirect posterior restorations.	1
	32th.	Conservative Esthetic Procedures part1 smile design.	1
	33th.	Conservative Esthetic Procedures part2 diastema closure and bleaching.	1
	34th.	Pain control in operative dentistry.	1
	1st.	Introduction and components parts RPD	1

3th. Prosthodontics	2nd.	Terminology & definitions.	1
	3th.	Clinical and laboratory steps in RPD	1
	4th.	Classification of partially edentulous arches	1
	5th.	Surveying	1
	6th.	Surveying	1
	7th.	Components parts of RPDs	1
	8th.	Maxillary major connectors	1
	9th.	Mandibular major connectors	1
	10th.	Minor connectors	1
	11th.	Minor connectors	1
	12th.	Rest and rest seat Rest and rest seat	1
	13th.	Retainer For RPD	1
	14th.	Retainer part II (Extracoronary retainers)	1
	15th.	Retainers part III (intracoronary retainers)	1
	16th.	Indirect retainer	
	17th.	Denture base	1
	18th.	Stress breakers	1
	19th.	Principals of PD design	1
	20th.	Principles of PD design	1
	21th.	Acrylic RPD	1
	22th.	Clinical phases of RPD and examination, diagnosis and treatment planning	1
	23th.	jaw relation records	1
	24th.	jaw relation records	1
	25th.	Tooth arrangement in RPD	1
	26th.	Trial RPD	1
	27th.	Lab. Steps for RPD (Block out and relief)	1
	28th.	Lab. Steps for RPD (Duplication, Refractory cast, wax pattern, casting and finishing)	1
	29th.	Types of metals for RPD	1
	30th.	Relining, rebasing and repair	1
	1st.	Introduction to Pathology	1
	2nd.	Adaptation to Cell injury	2
	3th.	Cell Death	2
	4th.	Homeostasis of Body Fluids	1
	5th.	Introduction to Immunopathology	1
	6th.	Acute Inflammation	1

3th. General Pathology	7th.	Chronic Inflammation	1
	8th.	Healing: Regeneration & Repair	2
	9th.	Hemodynamic Disorders of Perfusion	1
	10th.	Disorders of Human Immunity	1
	11th.	Introduction to infectious diseases	1
	12th.	Viral infection	1
	13th.	Bacterial infection	1
	14th.	Parasitic & Fungal Infections	1
	15th.	Genetic Disorders	3
	16th.	Hemopoietic Disorders	3
	17th.	Neoplasm	2
	18th.	Environmental Pathology	1
3th. Dental Radiology	1st.	Introduction, outline of the course, history of dental radiation, x-radiation properties, radioactivity, uses of x-radiation. The cathodes, anode, target, focal area, size into x-radiation.	2
	2nd.	The x-ray beam, position and shape. inverse square law, rectification. X-ray spectrum, filtration and collimation. Unmodified scattering, modified scattering Compton effect, Characteristic radiation. Half, value layer For measurement, lionization chambers. Film.Dosimeter.chemical the thermoluminescent.	2
	3th.	Dental x-ray films. intra oral films. Construction. Size and speed. Extraoral .Films. Screen and non-screen, chemistry of screens, speed cassettes, size.	1
	4th.	Film properties, density. Contrast, detail or definition.	1
	5th.	Latent image and film processing, latent image formation. Developing.fixing, manual and automatic processing. Developer.fixer.	1
	6th.	The darkroom, size and location, construction and design, equipment, safe light. testing for safe light (coin test), film identification, intraoral and l extraoral films, film and equipment storage.	1
	7th.	The radiograph, radiograph quality, principles of shadow, casting. artifacts .due to exposure. processing, fog and rough handling	1
	8th.	Viewing of the radiograph, image quality and projection. Geometry. optical illusions. viewing equipment and mounts, viewing technique.	1
	9th.	X-radiation protection. protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures,distance and kilovoltage, lined cylinders and protective aprons.	1
	10th.	Protection for the Operator, Position, distance,barriers, radiation protection for associated person, regulatory measurements, monitoring procedures	1
	11th.	Hazards effects of radiation on living tissue, ionization, direct and indirect effects, tissue variability, whole body radiation, specific area radiation individual variability, latent period, radiation of genetic tissues, effects on somatic tissues.	2
	12th.	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisecting technique compared, position of patient, film placement and angulation procedures using the paralleling technique, horizontal and vertical angulation.	2
	13th.	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting techniques.	1
	14th.	Film placement and angulation procedure using biteWing films, alternative film holding devices	1
	15th.	Film placement and angulation produces using occlusal film to radiograph, occlusalview-cross-occlusal view.	2

	16 th .	Panoramic radiography	1
	17 th .	Extra oral radiography (essential).	1
	18 th .	Extra oral radiography (specialized).	1
	19 th .	Normal radiographic anatomical landmarks.	1
	20 th .	Common diseases of teeth and surrounding tissues.	1
	21 th .	Digital radiography: a- Physical principles. b- Clinical applications. c- Advantages and disadvantages. d- Radiographic interpretation.	1
	22 th .	Computerized Tomography (CT): a- Physics. b- Clinical applications. c- Advantages and disadvantages. d- Radiographic interpretation.	1
	23 th .	Magnetic Resonance (MRI): a- Physics. b- Clinical applications. c- Advantages and disadvantages. Radiographic interpretation	1
3 th . Community Dentistry	24 th .	Sonography: a- Physics. b- Clinical applications. c- Advantages and disadvantages. d- Radiographic interpretation.	1
	1 st .	Dental public health	1
	2 nd .	Procedural steps in dental public health	1
	3 th .	Dental indices	1
	4 th .	Indices used for dental caries assessments	1
	5 th .	Indices used for oral hygiene and periodontal health assessment	1
	6 th .	Introduction to epidemiology	1
	7 th .	Tools of measurement in epidemiology	1
	8 th .	Epidemiology of dental caries	1
	9 th .	Epidemiology of periodontal disease	1
	10 th .	Epidemiological studies	1
	11 th .	Biostatistics and dental science	1
	12 th .	Measures of central tendency & dispersion	1
	13 th .	Dental treatment need and demand	1
	14 th .	Dental services utilization	1
	15 th .	Fluoridation as a public health measure	1
	16 th .	Fluoridation, mechanism and effects	1
	17 th .	Dental ancillaries personnel	1
	18 th .	Primary health care	1

	19 th .	Dental care for special groups	1
	20 th .	Dental health education	1
	21 th .	Principles of health education	1
	22 th .	School dental health program	1
	23 th .	Occupational hazards	1
	24 th .	Environment and health	1
	25 th .	Forensic dentistry	1
	26 th .	Professional ethics	1
	27 th .	Dental patient relationships	1
	28 th .	Infection control	1
	29 th .	Sterilization	1
	30 th .	Dental manpower planning	1
3 th . Pharmacology	1 st .	General introduction to Pharmacology.	1
	2 nd .	Pharmacokinetics: include absorption, distribution, metabolism, and elimination.	3
	3 th .	Drug Receptor interaction and Pharmacodynamics: including identifies the mechanism of action of drugs and identify the the drug–receptor complex.	2
	4 th .	The autonomic nervous system (ANS): including central nervous system (CNS) and peripheral nervous system (PNS). Identify the major receptor families types.	2
	5 th .	Cholinergic system: including cholinergic transmission, the mechanism, pharmacologic effect, adverse reaction and elimination of cholinergic agonists and cholinergic antagonists.	4
	6 th .	Adrenergic system: including adrenergic transmission, the mechanism, pharmacologic effect, adverse reaction and elimination of adrenergic agonists and adrenergic antagonists.	4
	7 th .	Agonist; Bronchodilators and Vasodilators.	2
	8 th .	Principal of antimicrobial agents or Antibacterial drugs.	2
	9 th .	β - lactam and other cell wall synthesis inhibitor antibiotics.	2
	10 th .	Protein synthesis inhibitors.	2
	11 th .	Quinolones, Folate antagonists, and Urinary tract antiseptics.	2
	12 th .	Hypertension and Antihypertensive drugs.	2
	13 th .	Diuretics.	2
	14 th .	Angina pectoris; Antianginal and Antiarrhythmic Drugs.	2
	15 th .	Nonsteroidal anti-inflammatory drugs and narcotic analgesics.	3
	16 th .	General and Local Anesthetics.	2
	17 th .	Antiviral agents.	2
	18 th .	Antifungal drugs.	2
	19 th .	Diabetes and Antidiabetic drug.	2
	20 th .	Drug acting on the gastrointestinal tract.	2
	21 th .	Antianxiety and Hypnotic drugs.	3

	22 th .	Serotonin agonist and antagonist drugs.	2
	23 th .	Antiviral drugs.	2
	24 th .	Histamine and antihistamine drugs.	2
	25 th .	H2- receptor antagonist; mechanism of action.	2
	26 th .	Depression: monoamine hypothesis, MAOI, and, selective serotonin receptor inhibitors.	2
	27 th .	Schizophrenia and mania; neuroleptic mode of action.	2
3 th . Oral Surgery	1 st .	Case sheet	1
	2 nd .	Surgical anatomy	1
	3 th .	Physiology and Pharmacology	1
	4 th .	Local anesthesia technique	1
	5 th .	Local anesthesia technique	1
	6 th .	Complications of local anesthesia	1
	7 th .	Forceps	1
	8 th .	Elevators	1
	9 th .	Elevators	1
	10 th .	General arrangements for extraction	1
	11 th .	Tooth extraction	1
	12 th .	Complications of tooth extraction	1
	13 th .	Complications of tooth extraction	1
	14 th .	Basic dental instruments	1
	15 th .	Basic dental instruments	1
	16 th .	Sutures material and techniques	1
	17 th .	Impaction of wisdom tooth	1
	18 th .	Impaction of canine and second premolar	1
	19 th .	Impaction of canine and second premolar	1
	20 th .	Sterilization	1
	21 th .	Evaluation of local and systemic difficulties prior to extraction	1
	22 th .	Evaluation of local and systemic difficulties prior to extraction	1
	23 th .	Evaluation of local and systemic difficulties prior to extraction	1
	1 st .	Red Blood Cells, Anemia, and Polycythemia PART I	1
	2 nd .	Red Blood Cells, Anemia, and Polycythemia PART II	1
	3 th .	Resistance of the Body to Infection: Leukocytes, Granulocytes, the Monocyte-Macrophage System, and Inflammation PART I	1
	4 th .	Resistance of the Body to Infection: Leukocytes, Granulocytes, the Monocyte-Macrophage System, and Inflammation PART II	1

2 th . Physiology	5 th .	Blood Types; Transfusion; Tissue and Organ Transplantation	1
	6 th .	General Principles of Gastrointestinal Function-Motility, Nervous Control, and Blood Circulation PART I	1
	7 th .	General Principles of Gastrointestinal Function-Motility, Nervous Control, and Blood Circulation PART II	1
	8 th .	Propulsion and Mixing of Food in the Alimentary Tract	1
	9 th .	Secretory Functions of the Alimentary Tract	1
	10 th .	Digestion and absorption in the GIT	1
	11 th .	Respiratory system	1
	12 th .	Lung Pleura	1
	13 th .	Pressures During Respiration	1
	14 th .	The Body Fluid Compartments: Extracellular and Intracellular Fluids	1
	15 th .	Fluid Intake and Output Are Balanced During Steady-State Conditions	1
	16 th .	Kidney Physiology PART I	1
	17 th .	Kidney Physiology PART II	1
	18 th .	Contraction of Skeletal Muscle	1
	19 th .	Energetics of muscle contraction	1
	20 th .	Transport of Substances Through Cell Membranes	1
	21 th .	Excitation of Skeletal Muscle: Neuromuscular Transmission and Excitation-Contraction Coupling	1
	22 th .	Excitation and Contraction of Smooth Muscle	1
	23 th .	Cardiac Muscle; The Heart as a Pump and Function of the Heart Valves	1
	24 th .	Endocrinology :Introduction	1
	25 th .	Pituitary Hormones and Their Control by the Hypothalamus	1
	26 th .	Posterior Pituitary Gland and Its Relation to the Hypothalamus	1
	27 th .	The Male Reproductive System	1
	28 th .	Spermatogenesis	1
	29 th .	The Female Reproductive System	1
	30 th .	Thyroid Metabolic Hormones	1
2 th . Biochemistry	1 st .	Biochemistry and role of vitamin A & D	1
	2 nd .	Biochemistry and role of vitamin K & E	1
	3 th .	Biochemistry and role of C & B complex family	1
	4 th .	Digestion and absorption of carbohydrate and lipid	1
	5 th .	Digestion and absorption of protein and detoxification mechanism	1
	6 th .	Glycolysis & glycogenesis	1
	7 th .	Biological oxidation, respiratory chain	1
	8 th .	G-6- PD & factors control blood glucose	1
	9 th .	Metabolism in starvation and diabetes	1
	10 th .	Classification of lipids	1
	11 th .	Fatty acid metabolism & β -oxidation	1
	12 th .	Cholesterol metabolism	1
	13 th .	Lipoprotein metabolism	1
	14 th .	Metabolism of Ca^{+2} & Fe	1
	15 th .	Metabolism of Cu, Zn, Mg, Mn, Sc and Cr	1
	16 th .	Classification , control and role of hormones	1
	17 th .	Hypothalamus – pituitary hormones	1
	18 th .	Insulin, glucagon, PTH	1

	19 th .	Catecholamine , thyroid hormone	1
	20 th .	Common amino acid classification and general properties	1
	21 th .	Catabolism of amino acids	1
	22 th .	Ammonia & urea cycle	1
	23 th .	Conversion of amino acid to special products and creatinine	1
	24 th .	Constituents and properties of nucleic acid	1
	25 th .	Metabolism of purine & pyrimidine	1
	26 th .	DNA repairing , xerodermia	1
	27 th .	Bacterial protein synthesis	1
	28 th .	Biochemistry of cancer	1
	29 th .	Tumors markers	1
	30 th .	Enzymes and clinical enzymology	1
	31 th .	Liver and kidney function test	1
	32 th .	Free radicals and antioxidants	1
2 th . General Histology	1 st .	Basic tissues of human body: consist of types of Epithelial tissues, types of general connective tissues & specialized connective tissues (bone, cartilage, & blood). Muscular tissues & Nervous tissues.	6
	2 nd .	Integumentary system: consist of A. skin B. derivatives (hair, nail & glands).	6
	3 th .	Hematopoietic tissue: (bone marrow).	4
	4 th .	Circulatory system	4
	5 th .	Lymphatic system: consist of lymphatic vessels & lymphatic organs.	6
	6 th .	Respiratory system	4
	7 th .	Digestive system: consist of A. Oral cavity tissues, B. digestive tube C. digestive glands.	8
	8 th .	1. Urinary system	4
	9 th .	Male reproductive system	4
	10 th .	Female reproductive system	4
	11 th .	Nervous tissues: consist of A. central N.T. (brain & spinal cord) B. peripheral N.T.	6
	12 th .	Endocrine system: endocrine glands.	4
	1 st .	Complete denture prosthesis: - Definition. - Desired objectives.	1
	2 nd .	Anatomy in relation to complete denture, upper maxillary landmark.	1
	3 th .	Anatomy in relation to complete denture, lower maxillary landmark	1
	4 th .	impression trays: a- Definition. b- Stock tray.	1
	5 th .	primary impression: a- Production of study model. b- Common fault in impression making	1
	6 th .	Study cast: Special trays, materials, importance and advantages.	1
	7 th .	Secondary of final impression: a- Mucostatic impression technique. b- Functional impression technique.	1
	8 th .	final impression materials: a- Plaster impression.	1

2th. Prosthodontics		b- Zinc/oxide eugenol paste. c- Elastomer impression. d- Boxing and production of master cast.	
	9th.	Occlusion blocks: a- Record bases. Occlusion rims. b- Uses of bite rims, occlusal plane.	1
	10th.	Recording jaw relations: a-Maxillo-mandibular relation. b- Vertical dimensions.	1
	11th.	methods of recording vertical and horizontal relations: a- Mechanical method. b- Physiological method. c- Centric jaw relation, methods of recording. d- Center occlusion. e- Eccentric jaw relation.	1
	12th.	articulators: a- Types of articulators. b- Face-bow, definition, types.	1
	13th.	Mounting the cast on the articulator. -method, common errors.	1
	14th.	Selection of artificial teeth: a- Anterior teeth. b- Posterior teeth. c- Types of teeth according to material, cusp inclination.	1
	15th.	Arrangement of artificial teeth: a- Guides. b- Arrangement of upper and lower six anterior teeth.	1
	16th.	arrangement of posterior teeth: a- Orientation of occlusion plane. b- Balanced occlusion.	1
	17th.	Wax contouring of denture. Waxing carving upper and lower denture.	1
	18th.	Flasking of denture. Definition half and full flasking of denture.	1
	19th.	Wax elimination: a- Preparing the mold for packing. b- Separating medium.	1
	20th.	Preparation and packing of acrylic resin: a- Mixing, packing. b-Processing of dentures.	1
	21th.	Deflasking of dentures: a- Removing of dentures. b- Reprocessing of dentures.	1
	22th.	Abrasive and polishing agents: a- Types of burs. b- Carbrandum, pumice and rouge.	1
	23th.	Selective grinding. Rules for selective grinding.	1
	24th.	Denture repair. Fractured denture, replacing teeth.	1
	25th.	Relining and rebasing.	1
	26th.	Seminars and review of the program.	1
2th. Dental Material	1st.	General properties of dental materials physical properties	۱
	2nd.	Mechanical properties	۱
	3th.	Gypsum products	۱
	4th.	dental materials Investment materials	۱
	5th.	Impression materials	۱
	6th.	Rigid impression materials	۱
	7th.	Impression materials (continuation)	۱
	8th.	Elastic Impression materials	۱
	9th.	Dental Waxes	۱

	10 th .	Dental Polymers	1
	11 th .	Denture Base Materials	1
	12 th .	Cement Materials	1
	13 th .	Zinc Polycarboxylate cement	1
	14 th .	Filling Materials	1
	15 th .	Filling Materials (continuation)	1
	16 th .	Dental Amalgam	1
	17 th .	Properties Of Dental Amalgam	1
	18 th .	Metals and alloy	1
2 th . Oral Histology	1 st .	Development of the oral cavity Fertilization. a- Basic germ layer: b- Ectoderm. c- Mesoderm. d- Endoderm. e- Neural crest formation, migration and derivative. f- Brachial arches.	1
	2 nd .	Development of face and oral cavity: a- Development of the facial process. b- Development of the tongue. c- Clinical considerations: d- Facial clefts. e- Development cyst. f- Lingual anomalies. g- Labial anomalies	2
	3 th .	Development and growth of the teeth: a- Enamel organ. b- Dental papilla. c- Dental sac.	2
	4 th .	Root formation: a- Hertwig's epithelial root sheath. b- Uni-and multi-rooted tooth. c- Clinical considerations: d- Initiation stages. e- proliferation. f- Histodifferentiation. g- Morphodifferentiation. h- Apposition.	1
	5 th .	Enamel: a- Physical and chemical characters. b- B- Structure elements.	1
	6 th .	Amelogenesis: a- Ameloblast life cycle. b- Formation of the enamel matrix. c- Mineralization of the matrix.	1
	7 th .	Clinical consideration in enamel. a- Abnormal enamel formation. b- Genetic factor responsible for the enamel formation. c- System and local factors.	1
	8 th .	Dentine: a- Physical and chemical properties. b- Dentine structure.	1
	9 th .	Structure and landmarks could be seen in dentine: a- In ground section. b- In decalcified section. c- Different kinds of dentine.	1
	10 th .	Dentinogenesis: a- Odontoblast life cycle. b- In decalcified section. c- Dentine enervation theories.	2
	11 th .	Pulp a- Mature pulp. b- Formation and development of the pulp.	2

		c- Structure elements. d- Pulp stones. e- Defense cell neural system. f- Clinical consideration.	
	12 th .	Cementum: Maturecementum structure and properties. a- Cellular cementum. d- Acellularcementum. e- Cementogenesis. f- Cemento-enamel junction. g- Cemento-dentinal junction. h- Clinical consideration.	2
	13 th .	Periodontal ligament: a- Development and formation. b- Clinical consideration of the periodontal ligament c- Physiological changes.	2
	14 th .	14- Oral mucosa membrane: a- Transitional area. b- Kinds of oral mucosa	
	15 th .	Maxilla and mandible: a- Development of the alveolar process. b- Properties of the alveolar bone. c- Clinical considerations	3
	16 th .	Dentino-gingival junction. Development of the epithelial attachments.	1
	17 th .	Salivary gland: a- Classification. b- Structure elements. c- Clinical considerations.	2
	18 th .	Eruption of teeth: a- Mechanism of eruption. b- Clinical considerations	2
	19 th .	Shedding of the deciduous teeth: a- Process of shedding. b- Clinical considerations	1
	20 th .	Histochemistry of the tissue: a- Structure and chemical composition of oral tissue b- Specific histochemical method.	1
2 th . Anatomy	1 st .	The skull	١
	2 nd .	The skull	١
	3 th .	The cranial cavity	١
	4 th .	The cranial cavity	١
	5 th .	Neonatal skull	١
	6 th .	The mandible	١
	7 th .	Scalp	١
	8 th .	The face	١
	9 th .	The face	١
	10 th .	Muscles of the face	١
	11 th .	Parotid region	١
	12 th .	Salivary glands	١
	13 th .	Temporal fossa	١
	14 th .	Infra – temporal fossa	١
	15 th .	Infra – temporal fossa	١
	16 th .	Mxillary artery	١
	17 th .	Oral cavity	١
	18 th .	The nasal cavity	١
	19 th .	The orbit	١

	20 th .	The ear	١
	21 th .	The cervical vertebrae	١
	22 th .	The neck (vessels and nerves)	١
	23 th .	The neck (vessels and nerves)	١
	24 th .	Muscles of the neck	١
	25 th .	Muscles of the neck	١
	26 th .	Cranial nerves	١
1 th . Medical Chemistry	1 st .	Types of radiation, ionizing radiation, detection of radiation	١
	2 nd .	Nuclear reaction, half-life, radiation dose	١
	3 th .	Medical application of radioactive material in medicine	١
	4 th .	The pH scale measurements of pH	١
	5 th .	Normality	١
	6 th .	Bronsted acid base, ionization constant	١
	7 th .	Buffer solution, acid base in blood	١
	8 th .	Colloids, dialysis in living systems	١
	9 th .	Ions in living systems, ionic reaction, ionization of water, reaction of acid –base with carbonic acid	١
	10 th .	Pollution, air pollution, prevention and cure of air pollution	١
	11 th .	Isomerism and stereochemistry, geometrical isomers, optical isomers	١
	12 th .	Alcohols, physical isomers, oxidation of alcohols	١
	13 th .	Amines, physical properties, substitution ammonium ions, reaction of amines, and oxidative dealkylation	١
	14 th .	Carboxylic reaction, physical properties, acidity, derivatives, acyl transfer reaction	١
	15 th .	Alkaloids and heterocyclic compounds	١
	16 th .	Sulfa drugs, action And antibiotic	١
	17 th .	Carbohydrate, dimensional structure, the cyclic structure of monosaccharide	١
	18 th .	Disaccharide, mucopolysaccharide, and connective tissue	١
	19 th .	Bacterial cell wall, biological importance of carbohydrate	١
	20 th .	Lipid classification, biological role of lipids, fatty acids reaction,	١
	21 th .	Prostaglandin, steroids, sex hormones, and oral contraceptive,	١
	22 th .	Plasma lipoproteins and cell membrane, protein classification, titration curve of amino acids	١
	23 th .	Biological activity of peptides, determination of amino acid sequence	١
	24 th .	Structure level of proteins and globular and fibrous protein	١
	25 th .	Nucleic acid classification	١
	26 th .	Role of nucleic acids and virus	١
	27 th .	Enzymes definition and classification	١
	28 th .	Factors affecting enzymatic reaction	١
	29 th .	Enzymes specificity and inhibition	١
	30 th .	Enzymes kinetics and mechanism of action	١
	31 th .	Enzymes in clinical diagnosis	١
	32 th .	Enzymes and genetic disease	١
	1 st .	Types of light & electron microscope	2
	2 nd .	General introduction with origin of life, prokaryotic & eukaryotic cells, Branches of biology, Classification of systematic biology to 5 kingdom.(monera, protista, fungi, plantae & Animalia.	2
	3 th .	General characters of <i>Viruses</i>	2
	4 th .	General characters of <i>Rickettsia</i>	2

1 th . Medical Biology	5 th .	General characters of <i>Bacteria</i>	2
	6 th .	Cell biology (Structure & function of cell membrane), diffusion & osmosis.	2
	7 th .	Structure & function of cell organelle that inside living cells.	2
	8 th .	Structure & function of nuclear membrane , nucleus & nucleolus.	2
	9 th .	Life cycle of the cell (Mitotic & Meiotic division).	4
	10 th .	Genetics: Mandel s lows & modes of inheritance.	4
	11 th .	Genetic interactions, crossing over sex linkage.	2
	12 th .	Structure of chromosome & DNA strands, Replication of DNA & RNA.	2
	13 th .	Normal human Karyotype.	2
	14 th .	Genetic abnormalities.	2
	15 th .	Human histology: A. Epithelial tissues. B. Glandular epithelial (glands).	4
	16 th .	Connective tissues: (structure & types of connective tissues).	4
	17 th .	1. Special connective tissues: A. Cartilage B. Bone C. Blood D. Haemopoietic tissues.	6
	18 th .	2. Muscular tissues	2
	19 th .	3. Nervous tissues	2
	20 th .	4. General characters of protozoa, relation between parasitic organism & types of hosts.	2
	21 th .	5. Life cycle & clinical manifestation of: A. <i>Entamoeba histolytica</i> . B. <i>Entamoeba coli</i> . C. <i>Entamoeba gingivalis</i> .	2
	22 th .	6. Life cycle & clinical manifestation of: A. <i>Giardia lamblia</i> . B. <i>Trichomonas vaginalis</i> C. <i>Leishmania sp</i> D. <i>Plasmodium sp</i> E. <i>Toxoplasma gondii</i>	2
	23 th .	7. Life cycle & clinical manifestation for other pathogenic parasite.	4
1 th . Medical Physics	1 st .	Terminology , modeling and measurement	1
	2 nd .	Forces on & in body	2
	3 th .	Physics of the skelton	3
	4 th .	Heat and cold in medicine	3
	5 th .	Energy , work and power of the body	3
	6 th .	Pressure	3
	7 th .	Physics of the lungs and breathing	4
	8 th .	Sound in medicine	3
	9 th .	Physics of the ear and hearing	3
	10 th .	Light in medicine and its applications	3
	1 st .	Introduction	1
	2 nd .	nomenclature	1
	3 th .	Tooth numbering Systems.	3
	4 th .	Crown, root, surfaces and divisions into thirds.	1
	5 th .	Anatomical landmarks.	4
	6 th .	Permanent maxillary central incisors	1
	7 th .	Permanent maxillary lateral incisors	1
	8 th .	Permanent mandibular central incisors.	1
	9 th .	Permanent mandibular lateral incisors.	1

1th. Dental Anatomy	10th.	Permanent upper canines	1
	11th.	Permanent lower canines	1
	12th.	Permanent maxillary 1st premolars.	1
	13th.	Permanent maxillary 2nd premolars.	1
	14th.	Permanent mandibular 1st premolar.	1
	15th.	Permanent mandibular 2nd premolar.	1
	16th.	Permanent maxillary 1st molar.	1
	17th.	Permanent maxillary 2nd molars.	1
	18th.	Permanent maxillary 3rd molars.	1
	19th.	Permanent mandibular 1st molar.	1
	20th.	Permanent mandibular 2nd molars.	1
	21th.	Permanent mandibular 3rd molars.	1
	22th.	Pulp cavities	2
	23th.	Tooth development	2
1th. Computer Science	1st.	1-Introduction about computer software and hardware , computer structure	1
	2nd.	2-Operating system ,CD ROM ,File& Folder	2
	3th.	3-Introduction about Windows Desktop Icons, How do you use windows ?, Task Bar ,Arrange icons, Mouse, Past, Past short, cut, Undo, New ,Short cut , Properties	2
	4th.	4-b- Display properties , Back grounds ,screen saver, appearance, setting	1
	5th.	5-c- The Windows Properties of windows, Title bar, menu bar , Tools bar ,Scroll bar, Status bar ,,,,,, Properties of Task bar ,Start menu program , Shut down , run ,help, find, setting, document and programs ,Task bar options	2
	6th.	6-d- Menu of programs Accessories, Calculator, Paint , Word pad, Windows explorer, My computer, Recycle bin	1
	7th.	7-Microsoft word	5
	8th.	8-Microsoft Excel	9
	9th.	9-Microsoft Power point	5
	10th.	10-Introduction about Internet and Network	2

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١- الكتب المقررة المطلوبة

Dentistry for child & adolescent
 Herbert T. Shillingburg
 Restorative dental material ,Robert graig and john m powers
 Ingles Endodontics
 Pathway to the pulp
 Primary prevention dentistry (Harris)
 Bouchers prosthodontics treatment for edentulous patient
 McCrackens removable partial prosthodontics
 Peterson text book ,killy&k handbook
 Outline of oral surgery
 Snell clinical anatomy
 Medical biology (textbook)
 Human anatomy
 Contemporary oral and maxillofacial surgery ,james r. hupp,Edwardellis, Myron trucker
 Textbook of oral and maxillofacial surgery ,gustavkruger

Dental mangment od medically compromised patient ,games little ,Donald falace ,griage miller ,nelson rhodus
Harpers biochemistry
Textbook of clinical periodontology
Carranza clinical periodontology
Clinical periodontology and implant dentistry
Guytor of Hall textbook of physiology
Medical physics by Cameron
Introduction to orthodontic (lawra Mitchel) profit contemporary orthodontics

أ - المراجع الالكترونية، مواقع الانترنت

Physics for biology and biology and pre –medical student .byd.m.burns
Carranza clinical periodontology
Journal of clinical periodontology
Medical physiology journal
American journal orthodontics and dentofacial orthopedics
Elsevier journal angle orthodontics
Cell biology /Elsevier sanders
Blue histology from school of anatomy & human biology
Pocket atlas of human anatomy
Surgical anatomy of the face
Netter atlas of human anatomy
Cliffs anatomy & physiology
Basic guidelines to dental instrument
Dental instrument (a pocket guide to identification)
Blackwell surgery
Science direct
EBSCO
Pubmed
Textbook for pediatric dentistry
Eurendodj. Com
Lippencot.com
Blackwell.com
[www.angle](http://www.angleorthodontics) orthodontics

١١. خطة تطوير المقرر الدراسي

تم وضع خطة مبرمجه لتطوير الخطة الدراسية لقسم طب الاسنان في مختلف المواد لمختلف المراحل من خلال متابعة التطورات والمستجدات في عدد من الجامعات والكليات الرصينة في داخل القطر وخارجه ، وتم عقد العديد من الندوات والمؤتمرات لطلبة المراحل المنتهية لمواكبة التطورات وقد انعكس هذا النشاط ايجابيل على المقررات الدراسية لجميع المراحل المنتهية خصوصاً .