وزارة التعليم العالي والبحث العلمي

دليل الدراسة لكليات طب وجراحة الفم والأسنان بالجامعات الليبية

2022

توطئة

الدول الحريصة على التعليم واكتساب المعرفة والخبرة اللازمة تعد أهم استثماراتها وثرواتها ألا وهي عقول أبنائها . لهذا اقتضت المنهجية العلمية أن تطرح النتيجة التي جاءت بها والفكرة التي اهتدت إليها ومن ثم يتبعها التطبيق الكاشف عن دقائقها الموضح لجزئياتها.

لهذا تم وضع هذا الدليل بشأن اللوائح التنظيمية لكليات لكليات طب وجراحة الفم والأسنان بالجامعات الليبية والخطة الدراسية المعتمدة وفق توصيف المقررات الدراسية.

من هنا ينبغي العمل بهذا الدليل للرفع من النتاج العلمي بحثاً وتدريساً لشتى علوم طب وجراحة الفم والأسنان. ولأنها توطئة سنأخذها ونسعى إلى تطبيقها للوصول إلى الجميع بمضمون الدليل بآلية متبعة من أجل الهدف وتحقيق الفكرة.

ونحن إذ نقدم هذه الجهود فإننا نأمل أن نكون قد قدمنا شئاً يساعدنا على فتح الأبواب أمام أهل العلم والمعرفة خدمة لوطننا الحبيب ليبيا ومما يلبي احتياجات بلدنا لمؤهلين في مجال طب وجراحة الفم والأسنان وعلومه كافية لتمكنهم من إحداث التطوير والتنمية في عالم يتسابق فيه الجميع نحو البناء ولا مكان فيه لغير العلماء والمتعلمين والمبدعين.

أ.د. عمران محمد القيب

وزير التعليم العالي والبحث العلمي



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وزيـر التعليم العالي والبحث العلمي.

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قـــــرر

مـادة (1)

يتم بموجب احكام هذا القرار اعتماد دليل الدراسة لكليات طب وجراحة الفم والاسنان بالجامعات الليبية المرفق بهذا القرار.

مـادة (2)

يعمـل بهـــذا القرار مـن تاريـــخ صـــدوره وعلى الجهـــات المعنيـة تنفيـــذه.

عمران محمد القيب
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2022م

الفصـــل الاول: أحكام تمهيدية

مادة ((1)) تعريفات

تدل العبارات الآتية أينما وردت في هذه اللائحة علي المدلولات المبينة قرين كل منها مالم يدل السياق علي خلاف ذلك:

مجلس الكلية: يشكل المجلس العلمي للكلية من عميد الكلية رئيساً وعضوية رؤساء الأقسام العلمية بالكلية، ويكون مدير مكتب شؤون مجلس الكلية مقرراً للمجلس . وبحضور مدير مكتب الدراسة والامتحانات ومسجل الكلية ومدير مكتب الجودة بالكلية، ولا يحق لهم التصويت على قرارات الكلية.

عميد الكلية: هو الشخص الذي يتولى الإشراف المباشر على سير العمل بالكلية وتصريف أمورها العلمية والإدارية في حدود السياسات التي ترسمها الجامعة.

رئيس القسم العلمي: هو عضو هيئة تدريس يرأس المجلس العلمي للقسم.

المجلس العلمي للقسم: يتشكل المجلس العلمي للقسم من رئيس القسم وعضوية جميع أعضاء هيئة التدريس القارين به، ويتم اختيار مقرر من بينهم, ويجوز حضور أي من الأساتذة المتعاونين وذلك عند مناقشة الجانب الذي يخصه فقط ولا يحق له التصويت على قرارات المجلس.

عضو هيئة التدريس: وهو كل من يحمل مؤهلاً علمياً عالياً (الماجستير أو الدكتوراة) أو ما يعادلهما من الشهادات التي تعترف بها الجهة المختصة بذلك؛ يؤهله للتدريس بإحدى مؤسسات التعليم العالي في إحدى التخصصات المعتمدة في الكلية ويقوم بعملية التدريس بها.

الطالب: هو الشخص الذي يدرس في هذه الكلية ابتداءً من تاريخ تسجيله في الدراسة حتى زوال هذه الصفة عنه مهما كانت الأسباب.

رقم القيد: رقم تسلسلي يمنح للطالب عند تسجيله في الكلية، يدل على الكلية والعام الجامعي والسنة الدراسية التي بدأ فيها الطالب.

الساعة الدراسية: هي انتظام الطالب في الدراسة لمدة ساعة أسبوعياً على مدى عام دراسي كامل.

السنه الميلاديه: هي السنه الشمسيه وتتالف من اثنى عشر شهرا وبالايام 365 يوما للسنة البسيطة و366 يوما للسنة الكبيسة.

المقرر الدراسي: هو مادة دراسية متخصصة يدرسها الطالب، ويكون لكل مقرر اسم ورمز وتوصيف مفصل لمفرداته يميزه من حيث المحتوى عما سواه من مقررات

الممتلكات: هي جميع ما تمتلكه الكلية من أصول مادية منقولة وغير منقولة.

مرحلة الامتياز: وهذه المرحلة الأخيرة من الدراسة ومدتها سنة ميلادية كاملة وهي مرحلة إلزامية حيث يسمح لخريج كلية طب وجراحة الفم والأسنان فيها بمزاولة المهنة ويتلقى فيها الطالب التدريب السريري بالعيادات التابعة للكلية أو أحد المستشفيات التعليمية المعتمدة لدى الجامعة ولا تدخل في المعدل التراكمي للطالب عند تخرجه

طبيب الامتياز: هو الطالب الذي أنهي الدراسة بالكلية بنجاح ويتلقى التدريب السريري بالعيادات التعليمية.

الكليات المناظرة: وهي أي كلية من كليات طب وجراحة الفم والأسنان في أي جامعة ليبية أو غير ليبية معترف بها من قبل وزارة التعليم.

الوحدة الدراسية المعتمدة: الساعة الدراسية المعتمدة هي مقدار من العمل ممثل في نتائج التعلم المقصود ويتم التحقق منه من خلال دليل على تحصيل الطلاب وهو معادلة راسخة مؤسسياً لا تقل عن ساعة واحدة من التدريس في

حكومة الوحدة الوطنية
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القدرات

الفصل الدراسي أو تعليم أعضاء هيئة التدريس المباشر، وما لا يقل عن ساعتين عملي كل أسبوع على مدى عام دراسي كامل.

الساعة الدراسية المعتمدة : ساعة واحدة تدريس بالفصل "محا ضرة + عدد ساعتى تدريب عملي على مدى عام دراسي كامل.

مادة ((2)) المقررات الدراسية

1) تتبع الكلية نظام احتساب الوحدات الدراسية أو نقاط الاعتماد لعدد الساعات المطلوبة في كل سنة دراسية. يبلغ الحد الاقصى للوحدات الدراسية لجميع السنوات (123) وحدة ، بحيث تعادل كل ساعة تدريس نظري وحدة واحدة (1) بينما تعادل كل ساعتين تدريب عملي او سريري وحدة و احدة (1).
2) تصنف المقررات الدراسية التي تدرس لنيل درجة البكالوريوس في طب وجراحة الفم والأسنان وفق الأتي:

- علوم طبية عامة وتشمل :

الفيزياء الطبية، الكيمياء الطبية، بيولوجيا الخلية، الإحصاء الحيوي، مصطلحات طبية، علم وظائف الأعضاء، التشريح العام ،الأنسجة العامة ،الكيمياء الحيوية ، الأحياء الدقيقة، علم الأمراض العامة، علم الأدوية ، الجراحة العامة ، الباطنة العامة.

- علوم طب الأسنان وتشمل :

التشريح الوصفي للأسنان ، أنسجة الفم ، الإستعاضة السنية المتحركة ، الإستعاضة السنية الثابتة ، خواص مواد الأسنان ، أمراض الفم ، طب الفم والتشخيص والاشعة ، جراحة الفم والوجه والفكين ، العلاج التحفظي وعلاج الجذور، أمراض وعلاج اللثة , طب أسنان الأطفال ، طب الأسنان الوقائي والمجتمعي ، و تقويم الأسنان.

مادة ((3)) متطلبات الحصول على درجة الكالوريوس

درجة البكالوريوس في طب الاسنان تتطلب دراسة 123 وحدة دراسية معتمدة، والذي يقدر بدراسة 43 مقرراً دراسياً. الحصول على درجة البكالوريوس يتطلب دراسة لمدة 5 سنوات بالاضافة الي سنة الامتياز والذي يعتمد على مسار الدراسة السابق للدراسة، والنموذج الذي سيتم به تنفيذ الدراسة بكلية طب الاسنان (نظامي)

مادة ((4)) التفصيل العام للوحدات الدراسية

1.دراسة عدد 63 وحدة دراسية معتمدة من المقررات الدراسية العامة للجامعة والكلية.

2.جراسة عدد 10 وحدات دراسية معتمدة من المقررات الإضافية.

3.دراسة عدد 50 وحدة دراسية معتمدة مواد التخصص.

مادة ((5)) لغة التدريس

اللغة الانجليزية هي لغة التدريس بكلية طب وجراحة الفم والأسنان ويجوز تدريس بعض المقررات الدراسية باللغة العربية إذا دعت الحاجة، وذلك بعد موافقة كل من القسم العلمي المختص ومجلس الكلية.

الفصـــل الثاني: الأقسام العلمية بالكلية

مادة ((6)) المقررات الدراسية

1- تتكون كلية طب وجراحة الفم والأسنان من الأقسام العلمية ومن المقررات التي يشملها كل قسم كما في الجدول:

	Department (Program) القسم العلمي	Subjects المقررات الدراسية
1	Department of Prosthodontics قسم الإستعاضة الصناعية	Fixed Prosthodontics, Removable Prosthodontics وDental material, Medical physics. الاستعاضة السنية الثابتة و خواص مواد الأسنان، الاستعاضة السنية المتحركة و الفيزياء الطبية
2	Department Of Conservative Dentistry, Endodontics and dental anatomy and Oral Histology قسم العلاج التحفظي وعلاج الجذور السنية و تشريح الاسنان و انسجة الفم	Conservative dentistry, Endodontics, Dental anatomy and Oal Histology العلاج التحفظي وعلاج جذور الأسنان و التشريح الوصفي للاسنان و أنسجة الفم
3	Department of Oral Surgery Oral Medicine, and Oral Pathology قسم جراحة و طب وأمراض الفم	Oral and Maxillofacial Surgery, Oral Medicine, Oral Diagnosis, Oral Radiology, Oral Pathology, General Pathology, General Medicine, Dental Pharmacology and General anatomy جراحة الوجه والفكين, و طب الفم, و التشخيص و أشعة الفم, و أمراض الفم والباطنة العامة, والجراحة العامة والامراض العامه و علم أدوية الاسنان والتشريح العام
4	Department of Periodontics and Oral Biology قسم علاج اللثة و بيولوجيا الفم	Periodontology, Oral mMicrobiolog, ell Biology, Oral physiology, Medical chemistry and Biochemistry أمراض وعلاج اللثة و علم الأحياء الدقيقة و علم الانسجة و بيولوجيا الخلية و وظائف الاعضاء و الكيمياء الطبية و الكيمياء الحيوية
5	Department Of Orthodontics, pedodontics and community Dentistry قسم التقويم و طب أسنان الأطفال و طب الاسنان الاجتماعي	Orthodontic, pedodonticsPreventive and community Dentistry, Mediam terminology, and Biostatistics تقويم الاسنان و طب أسنان الأطفال و طب الاسنان الوقائي و الاجتماعي و المصطلحات الطبية و الإحصاء حيوي

2- يجوز لمجلس الكلية العلمي إلغاء أو دمج أو استحداث أقسام أخرى كلما دعت الحاجة إلى ذلك بعد اعتماده من مجلس الجامعة وفقاً للتشريعات النافذة.

الفصـــل الثالث:القبول والتسجيل والانتقال

مادة ((7)) قبول الطلبة

يشترط لقبول الطالب بالكلية ما يأتي:

1. أن يكون الطالب حاصلاً الشهادة الثانوية العامة القسم العلمي، وبنسبة لا تقل عن 85%. و يجوز لمجلس الكلية عند تزاحم الطلبات بما يفوق القدرة الاستيعابية للكلية أن يضع نسباً للقبول، تزيد عن النسبة المنصوص عليها في الفقرات السابقة، كما يجوز له أن يرتب أولويات القبول.
2. أن يكون لائقاً صحياً وخالياً من الأمراض المُعدية، وقادراً على متابعة الدروس النظرية والعملية.
3. أن يكون حسن السيرة والسلوك.
4. أن يقوم بدفع الرسوم المقررة.
5. ألا يكون قد تم فصله من أي كلية من الكليات المناظرة أو أي جامعة من الجامعات الليبية أو خارجها لأسباب علمية أو تأديبية.
6. أن يجتاز امتحان القبول بنجاح، في حالة ان تقرر إجراء امتحان قبول من قبل مجلس الكلية.
7. ألا يكون قد مضى على حصوله على الشهادة الثانوية العامة أكثر من ثلاث سنوات.
8. إذا كان الطالب المتقدم للدراسة من غير الليبيين فيشترط فيه أن يكون مقيماً في دولة ليبيا إقامة رسمية (قانونية) طيلة مدة دراستة، وأن يؤدي الرسوم الدراسية وفق اللوائح والنظم المعمول بها في الجامعات الليبية، دون الإخلال بقواعد المعاملة بالمثل المنصوص عليها في الإتفاقيات الدولية المبرمة بهذا الشأن على ألا تزيد نسبتهم عن 04 % من مجموع الطلاب المقبولين وفق شروط القبول.
9. أن يتقدم الطالب بطلب الدراسة خلال الفترة المعلن عنها للقبول والمحددة بتاريخ بدء القبول وانتهائه، ويفتح باب القبول بالكلية في بداية كل عام جامعي ، وفي حدود القدرة الاستيعابية للكلية المحددة من مجلس الكلية أو من يمثله.
10. يُقبل الطلاب بالكلية ويقيدون وفق الفئات التالية:

أ. طلاب نظاميون: تشمل هذه الفئة جميع الطلاب المتفرغين للدراسة.

ب. طلاب وافدون: وهم الطلاب غير الليبيين الذين يتم منحهم مقاعد دراسية، وتنظم أوضاعهم وقبولهم بقرار من إدارة الجامعة أو وزارة التعليم.

مادة ((8)) التسجيل وتجديد القيد وإيقافه

تُشكل لجنة التسجيل وتجديد القيد في بداية كل عام دراسي، وتختص هذه اللجنة بكل ما يتعلق بسير عملية قبول الطلبة الجدد وتجديد القيد وتنظيمها على الوجه التالي:

1. تنظيم عملية قبول ملفات الطلبة الجدد وصرف أرقام القيود الجديدة لهم حسب التواريخ المعلن عنها في الخطة الدراسية, ووفقاً لشروط القبول المنصوص عليها بالمادة (5) من هذه اللائحة ويكون تجديد القيد برسم يحدد من الجهة المختصة ولا يجوز استرداده.
2. يتم تنظيم عملية التسجيل وإيقاف القيد حسب التواريخ المعلنة في الخطة الدراسية بالكلية ووفقاً للضوابط المنصوص عليها بهذه اللائحة.

3. تبدأ إجراءات تجديد القيد مع بداية العام الدراسي وفقاً للخطة الدراسية المعتمدة من مجلس الكلية والنموذج الخاص بذلك، خلال فترة لا تتجاوز أسبوعين، ويعد الطالب منقطعاً بعد هذه المدة ما لم يقدم مبرراً مقبولاً لغيابه في مدة لا تتجاوز الأسبوع السادس من بدء الدراسة.
4. يجوز للطالب إيقاف قيده خلال شهر من بداية العام الدراسي، وذلك طيلة فترة دراسته، وينتهي إيقاف القيد تلقائيا بمجرد انتهاء العام الدراسي، وعلى الطالب الشروع في تجديد قيده حال بدء العام الدراسي اللاحق، ولا تحسب فترة إيقاف القيد ضمن فترة الدراسة للطالب، ويجوز لمجلس الجامعة قبول وقف قيد الطالب بصورة استثنائية لعام دراسي آخر إذا تطلبت ظروفه ذلك ويجوز للطالب إيقاف قيده بصورة استثنائية أخرى شرط موافقة مجلس الجامعة على ذلك.

مادة ((9)) دليل الطالب

يُعَد دليل للطالب بالصورة التي تضمن إلمامه بنظام الدراسة والامتحانات ونظام الانتقال من سنة إلى أخرى والأحكام الأساسية للوائح المعمول بها وبصورة خاصة بنظام (الإنذار والفصل وإجراءات التحقيق والتأديب) وتعلن الكلية عنه ويوضع في مكان ظاهر معلوم.

مادة ((10)) النقل من الكليات المناظرة

يجوز و بقرار من عميد الكلية قبول طلبة منتقلين من كليات طب الاسنان المناظرة وذلك في حدود الإمكانات المتاحة وفقًا للشروط التالية:

1. أن تتوافر في الطالب شروط القبول المنصوص عليها في المادة (5) من هذه اللائحة.
2. لا يسمح بالانتقال للكلية إلا من كليات طب الاسنان المناظرة فقط لا غير.
3. أن يلتزم الطالب الراغب في الانتقال بتقديم المستندات المطلوبة معتمدة من جهات الاختصاص، على أن تحتوي على المقررات التي درسها، ومفردات هذه المقررات، وما يفيد بأنه قد اجتاز المقررات المطلوب معادلتها.
4. يخضع الطالب المقبول وفقاً لهذه المادة لإجراء معادلة من قبل اللجنة المختصة بمعادلة المقررات بالكلية، ويجوز للجنة المعادلة أن تطلب مقابلة الطالب، أو أن تجرى له امتحاناً شفهياً أو تحريرياً، ويمكن اتخاذ هذه الإجراءات منفردة أو مجتمعة، ولا يجوز للطالب أن يقوم بالتسجيل في الكلية إلا بعد إتمام إجرءات المعادلة له، وفي جميع الأحوال لا تجوز معادلة أي مقرر دراسي يقل فيه تقدير الطالب المنتقل عن نسبة 65% بالنسبة للكليات المناظرة، وعلى الطالب إعادة دراسة المقرر الدراسي في حالة لم تتم معادلته.
5. يمكن معادلة المقرر الدراسي إذا تطابقت مفرداته مع مفردات مقرر الكلية بنسبة لا تقل عن 75%، شريطة ألا يقل عنه في عدد الساعات الدراسية، مع الأخذ في الاعتبار الجانب العملي من المقرر الدراسي.
6. أن يكون ناجحاً للسنة المنقول إليها.
7. أن يلتزم بقضاء نصف المدة الدراسية على الأقل بالكلية قبل تخرجه.
8. تستبعد كل المقررات التي أنجزها الطالب بتقدير يقل عن جيد (65%) .
9. تتم معادلة المقررات الدراسية التي أنجزها الطالب بتقديرلا يقل عن جيد (65%) مع مراعاة أن يكون قد تم معادلة اسبقياتها من المقررات من قبل لجنة المعادلة وبشرط تطابق ما لا يقل عن "75%" من المحتوى العلمي للمقررات المعادلة.
10. أن يدرس الطالب المنتقل المقررات التي لم يسبق له دراستها أو التي لم تتم معادلتها له وذلك وفقاً للبرنامج المطلوب للحصول على الشهادة.

حكومة الوحدة الوطنية
وزارة التعليم العالي والبحث العلمي
القدارات

مادة ((11)) لجنة معادلة المقررات الدراسية

يصدر عن عميد الكلية قرار بتشكيل لجنة لمعادلة المقررات الدراسية للطلاب المنتقلين إليها من كليات طب الاسنان المناظرة، بناءً على عرض من مسجل الكلية بعد التشاور مع الأقسام العلمية وقسم الدراسة والامتحانات، ويجرى البث في طلبات المتقدمين للنقل خلال مدة لا تتجاوز 15 يوماً من تاريخ التقديم، ولا تعتبر نتيجة المعادلة نافذة إلا بعد اعتمادها من قبل عميد الكلية وفي حال وجدت هذه اللجنة أن طالب الانتقال قد درس وفقاً لأنظمة تعليمية مغايرة لما هو معمول به في الجامعات الليبية توجب عليها إحالة الأمر إلى اللجنة المختصة بمعادلة المؤهلات العلمية بمكتب ضمان الجودة ، ويجوز إلحاق الطالب بالدراسة وفق معادلة أولية وذلك الي حين استكمال إجراءات المعادلة النهائية ، ولا يعد الطالب منتقلاً فعلياً إلا بعد استيفاء كافة الإجراءات المطلوبة.

الفصل الرابع: نظام الدراسة والامتحانات

مادة ((12)) نظام الدراسة

تعتمد كلية طب وجراحة الفم والاسنان على نظام العام الدراسي، حيث يدرس الطالب خلال كل عام دراسي مجموعة من المقررات الدراسية وفقاً لنظام الساعات المكتسبة، والمدة الزمنية المخصصة لكل عام دراسي لإلقاء المحاضرات تتراوح بين 28 و 34 ساعة أسبوعاً، على حسب الخطة الدراسية للعام الدراسي المعتمدة من مجلس الكلية، ولا تدخل من ضمنها مدة التسجيل ومدة الامتحانات النهائية، تكون الدراسة بالكلية وفقاً لنظام السنة الدراسية الكاملة على النحو التالي:

1. تحدد بداية ونهاية الدراسة بقرار من وزارة التعليم كما يحدد القرار عطلة نصف السنة والامتحانات مع مراعاة الأوضاع الخاصة بالكليات التي تتطلب الدراسة فيها التدريب العملي ولا يجوز وقفها أو تعطيلها إلا بقرار منها.
2. يبدأ العام الدراسي عادة في الأول (1) من شهر أكتوبر وينتهي في (31) من شهر يوليو إلا إذا ورد ما يخالف ذلك من وزارة التعليم.
3. يحدد موعد الامتحانات الجزئية من قبل مجلس الكلية خلال العام الدراسي بحيث لا تزيد مدتها عن 3 ثلاثة أسابيع متصلة. وتجوز اجازة أي طريقة علمية للتقييم في تلك الامتحانات.
4. تبدأ امتحانات الدور الأول بمنتصف شهر مايو وتنتهي في النصف الثاني من شهر يونيو.
5. تبدأ امتحانات الدور الثاني في بداية شهر يوليو وتنتهي بنهايته.
6. يجوز تغيير مواعيد بداية ونهاية العام الدراسي وكذلك الامتحانات بناء على مقترح من الكلية وموافقة مجلس الجامعة بما يتماشى مع اللوائح والقوانين المعمول بها على ان لا تتجاوز مدة الامتحانات مجتمعة عن 14 اسبوعا بالسنة الدراسية.

مادة ((13)) مدة الدراسة

مدة الدراسة بالكلية لنيل درجة البكالوريوس في طب جراحة الفم والأسنان خمس سنوات دراسية تليها سنة تدريبية "سنة الامتياز " وتقسم مدة الدراسة على النحو التالي:

1. المرحلة ما قبل السريرية: ومدتها ثلاث سنوات دراسية وتشمل السنة الأولى والسنة الثانية والسنة الثالثة.
2. المرحلة السريرية: ومدتها سنتان دراسيتان وتشمل السنة الرابعة والسنة الخامسة.

3. مرحلة الامتياز: وهي مرحلة تدريبية الزامية ومدتها سنة ميلادية كاملة قد تتضمن اجراء مشروع بحثي إلزامي كمتطلب من متطلبات التخرج بإشراف أحد أعضاء هيئة التدريس وفي الكليات التي لايتوفر فيها عدد كافي من أعضاء هيئة التدريس يجوز الاستعانه بأعضاء هيئة تدريس من كليات طب وجراحة الفم و الأسنان مناظرة.

مادة ((14)) الشهادات الممنوحة

الشهادة الممنوحة لخريجي الكلية هي الدرجة الجامعية "بكالوريويس طب وجراحة الفم والأسنان".

مادة ((15)) الغياب

على الطالب في كافة مراحل الدراسة الإلتزام بمتابعة المحاضرات النظرية والعملية وأن يقوم عضو هيئة التدريس او من يعاونه برصد الحضور والغياب في كل محاضرة أو معمل أو تدريب سريري وإحالة الكشوفات لقسم الدراسة والإمتحانات بالكلية. وإذا وصلت نسبة تغيب الطالب عن الدراسة (25%) يحرم من دخول الإمتحان النهائي للمقرر المتغيب فيه.

مادة ((16)) ضوابط التسجيل في المقررات الدراسية

1. لا يسمح بنقل المواد من المرحلة ما قبل السريرية إلى المرحلة السريرية
2. لا يسمح للطالب بنقل أي مادة بين السنوات الدراسية غير المتتالية.
3. يجوز للطالب نقل مادتين على الأكثر من السنة الأولى إلى السنة الثانية على ألا تكون من بينهما الفيزياء الطبية، الكيمياء الطبية، أو بيولوجيا الخلية.
4. يجوز للطالب نقل مادتين على الأكثر من السنة الثانية إلى السنة الثالثة على ألا تكون من بينهما مادتي التشريح الوصفي للأسنان أو خواص مواد الأسنان.
5. يجوز للطالب نقل الجراحة العامة أو الباطنة العامة أو كليهما فقط من السنة الرابعة إلى السنة الخامسة.
6. يجوز للطالب الدخول للدور الثاني مهما كان عدد المواد التي لم ينجح فيها، وفي حالة نجاحه تحسب له الدرجة المتحصل عليها في الدور الثاني كاملة.
7. يحاسب الطالب في المواد التي يتقدم بها للدور الثاني على المجموع الكلي للمادة دون حساب أعمال السنة ، أما الطالب الذي تغيب عن امتحان الدور الأول بعذر فتحتسب له درجات أعمال السنة مع درجات امتحان الدور الثاني.
8. يحاسب الطالب في المواد التي يتقدم بها للدور الثاني في جميع المقررات لتلك المواد " نظري وشفهي وعملي أو سريري حسب الجدول المرفق لتوزيع الدرجات.

مادة ((17)) الساعات الدراسية والوحدات الدراسية المعتمدة

جدول يوضح عدد الساعات الدراسية النظرية والعملية أو السريرية و عدد الوحدات لكل مادة بحسب كل مرحلة على النحو التالي:

المرحلة الأولى (مرحلة ما قبل السريرية) "السنة الأولى "

ر.م	المواد الدراسية	الرمز	عدد الساعات النظرية في الأسبوع	عدد الساعات العملية في الأسبوع	مجموع عدد الساعات الدراسية	عدد الوحدات المعتمدة
.1	الفيزياء الطبية Medical Physics	GS010	2	4	6	2
.2	الكيمياء الطبية Medical Chemistry	GS020	2	4	6	2
.3	بيولوجيا الخلية Cell Biology	GS030	2	4	6	2
.4	الإحصاء الحيوي Biostatistic	GS040	2	—	2	2
.5	مصطلحات طبية Medical Terminology	GS050	2	—	2	2
	المجموع		10	12	22	10

المرحلة الأولى (مرحلة ما قبل السريرية) "السنة الثانية "

ر.م	المواد الدراسية	الرمز	عدد الساعات النظرية في الأسبوع	عدد الساعات العملية في الأسبوع	مجموع عدد الساعات الدراسية	عدد الوحدات المعتمدة
1	التشريح العام General Anatomy	MS110	3	6	9	3
2	علم الأنسجة Histology	MS120	2	4	6	2
3	علم وظائف الأعضاء Physiology	MS130	3	6	9	3
4	الكيمياء الحيوية Biochemistry	MS140	3	6	9	3
5	خواص مواد الاسنان Dental material	DS110	2	4	6	2
6	التشريح الوصفي للأسنان Dental Anatomy	DS120	2	4	6	2
	المجموع		15	30	42	15

المرحلة الأولى (مرحلة ما قبل السريرية) "السنة الثالثة "

ر.م	المواد الدراسية	الرمز	عدد الساعات النظرية في الأسبوع	عدد الساعات العملية في الأسبوع	مجموع عدد الساعات الدراسية	عدد الوحدات المعتمدة
1	علم الأمراض العامة General Pathology	MS210	2	4	6	2
2	علم الأحياء الدقيقة Microbiology	MS220	2	4	6	2
3	علم الأدوية Pharmacology	MS230	3	-	3	3
4	العلاج التحفظي وعلاج الجذور 1 Conservative dentistry and Endodontics I	DS210	2	4	6	2
5	الاستعاضة السنية المتحركة 1 Removable Prosthodontics I	DS220	2	4	6	2
6	الاستعاضة السنية الثابتة 1 Fixed Prosthodontics I	DS230	2	4	6	2
7	أنسجة الفم Oral Histology	DS240	2	4	6	2
	المجموع		15	24	39	15

المرحلة الثانية (المرحلة السريرية) "السنة الرابعة"

ر.م	المواد الدراسية	الرمز	عدد الساعات النظرية في الأسبوع	عدد الساعات العملية في الأسبوع	مجموع عدد الساعات الدراسية	عدد الوحدات المعتمدة
1	الباطنة العامة General Medicine	MS310	2	4	6	2
2	الجراحة العامة General surgery	MS320	2	4	6	2
3	أمراض الفم Oral Pathology	DS380	3	6	9	3
4	طب الأسنان الوقائي Preventive dentistry	DS381	2	4	6	2
4	العلاج التحفظي وعلاج الجذور 2 Conservative dentistry and Endodontics II	DS311	2	4	6	2
5	الاستعاضة السنية المتحركة 2 Removable Prosthodontics II	DS321	2	4	6	2
6	الاستعاضة السنية الثابتة 2 Fixed Prosthodontics II	DS331	2	4	6	2
7	جراحة الفم والوجه والفكين 1 Oral & Maxillofacial Surgery I	DS341	2	4	6	2
8	أمراض وعلاج اللثة 1 Periodontology I	DS351	2	4	4	2
9	طب الفم والتشخيص والأشعة 1 Oral Medicine, Diagnosis and Radiology I	DS361	2	4	6	2

	المجموع		21	20	41	21

المرحلة الثانية (المرحلة السريرية) "السنة الخامسة"

ر.م	المواد الدراسية	الرمز	عدد الساعات النظرية في الأسبوع	عدد الساعات العملية في الأسبوع	مجموع عدد الساعات الدراسية	عدد الوحدات المعتمدة
1	العلاج التحفظي وعلاج الجذور Conservative dentistry and Endodontics III	DS412	3	6	9	3
2	الاستعاضة السنية المتحركة Removable Prosthodontics III	DS422	2	4	6	2
3	الاستعاضة السنية الثابتة 3 Fixed Prosthodontics III	DS432	2	4	6	2
4	جراحة الفم والوجه والفكين Oral and Maxillofacial Surgery II	DS441	2	4	6	2
5	أمراض وعلاج اللثة Periodontology II	DS451	2	4	6	2
6	طب الفم والتشخيص والاشعة Oral Medicine, Diagnosis and Radiology II	DS461	3	4	8	2
7	طب أسنان الأطفال Pedodontics	DS471	2	4	6	2
8	تقويم الأسنان Orthodontics	DS481	2	4	6	2
9	طب اسنان المجتمع Community Dentistry	DS491	2	4	6	2
المجموع			19	42	39	19

مرحلة الإمتياز (مرحلة التدريب السريري)

ت	المقرر	الفترة الزمنية
01	الاستعاضة السنية الثابتة	(شـــهر واحـد)
02	الاستعاضة السنية المتحركة	(شـــهر واحـد)
03	العلاج التحفظي وعلاج الجذور	(شـهـران)
04	جراحة الفم والوجه والفكين	(شـهـران)
05	طب الفم والتشخيص والاشعة	(شـــهر واحـد)
06	أمراض وعلاج اللثة	(شـــهر واحـد)
07	تقويم الاسنان	(شـــهر واحـد)

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08	طب أسنان الاطفال	(شـــهر واحـــد)
09	طب الاسنان الوقائي والمجتمعي	(شـــهر واحـــد)
10	**شهر اختياري**	(شـــهر واحـــد)

مادة ((18)) الامتحانات النصفية (أعمال السنة)

1. يتعين علي أستاذ المقرر أن يُعلم الطلبة مع البداية الفعلية للمحاضرات بنظام التقييم الذي سيعتمد لدرجات أعمال السنة بحيث يتعرف الطالب علي نوع الامتحانات المطلوبة منه.
2. تبدأ الامتحانات النصفية بعد ثلاثة أشهر من بداية الدراسة لمدة أربعة أسابيع متواصلة "خلال الدراسة"
3. يجرى امتحان نصفي واحد في كل سنة دراسية.
4. يجوز بحسب ما يقرره مجلس القسم العلمي استبدال هذا النظام كلياً أو جزئياً بنظام التقييم المستمر عن طريق البحوث أو أوراق العمل أو التدريب العملي بعد عرضه على مجلس الكلية واعتماد مجلس الجامعة لذلك.
5. لا يحق لأي طالب إعادة الامتحان مرة أخرى و في حالة غيابه عن الإمتحان النصفي يطبق عليه نص المادة (20) من اللائحة.

مادة ((19)) الامتحانات النهائية

لا يجور عقد الامتحانات النهائية الا مرة واحدة في السنة الدراسية الواحدة و كذلك امتحانات الدور الثاني مهما كانت الظروف.

مادة ((20)) توزيع الدرجات

يقوم كل قسم بتوزيع الدرجات المخصصة لكل مادة على الامتحانات النصفية .(أعمال السنة والامتحانات النهائية) "دور أول ودور ثان" التحريرية و الشفوية والعملية أو السريرية على النحو التالي:

1. تخصص نسبة (20%) من مجموع الدرجات لكل مقرر للإمتحانات الجزئية "أعمال السنة "وتخصص نسبة (80%) الباقية لإمتحانات نهاية العام موزعة حسب الجدول المبين.
2. الامتحانات التحريرية النهائية لا تزيد مدتها عن ثلاث ساعات في كل مقرر من المقررات السابق ذكرها بالإضافة إلى الامتحانات الشفهية والعملية .
3. إذا رسب الطالب في الامتحان النهائي "الدور الاول" يؤدي امتحان "دور ثان " في المواد التي رسب فيها كاملاً (نظري وعملي وشفوي).

4. إذا رسب الطالب في امتحان الدور الثاني يعيد دراسة المقرر للمادة التي رسب فيها كاملاً (أعمال سنة ونظري وعملي وشفوي) ولا يسمح له بالاحتفاظ بأعمال السنة من العام الذي رسب فيه.
5. يشترط النجاح في المرحلة ما قبل السريرية على النسب التالية :

نسبة 60% من مجموع الدرجات الكلي أو نسبة 35% من الدرجات المخصصة للامتحان التحريري ، ونسبة 60% من الدرجات المخصصة للامتحانات المعملية في المواد التالية :

العلاج التحفظي وعلاج الجذور، الاستعاضة السنية الثابتة، الاستعاضة السنية المتحركة، التشريح الوصفي للأسنان ، أنسجة الفم وخواص مواد الأسنان.

أولاً: مرحلة ما قبل السريرية (السنة الاولى والثانية والثالثة)

ر.م	المواد الدراسية	الدور الأول			الدور الثاني		الدرجة النهائية
		أعمال السنة	عملي	نظري	عملي	نظري	
1	الفيزياء الطبية Medical Physics	20	10	70	20	80	100
2	الكيمياء الطبية Medical Chemistry	20	10	70	20	80	100
5	بيولوجيا الخلية Cell Biology	20	=	80	=	100	100
6	الإحصاء الحيوي Biostatistics	20	=	80	=	100	100
7	مصطلحات طبية Medical Terminology	20	10	70	20	80	100

توزيع درجات الدور الأول والدور الثاني (السنة الثانية)

ر.م	المواد الدراسية		الدور الأول			الدور الثاني			الدرجة النهائية
		أعمال السنة	عملي	شفوي	نظري	عملي	شفوي	نظري	100
1	التشريح العام General Anatomy	20	20	10	50	20	10	70	100
2	علم الأنسجة Histology	20	20	10	50	20	10	70	100
3	علم وظائف الأعضاء Physiology	20	20	10	50	20	10	70	100
4	الكيمياء الحيوية	20	20	10	50	20	10	70	100

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								Biochemistry	
100	70	10	20	50	10	20	20	خواص مواد الاسنان Dental material	5
100	70	10	20	50	10	20	20	التشريح الوصفي للأسنان Dental Anatomy	6

توزيع درجات الدور الأول والدور الثاني(السنة الثالثة)

الدرجة النهائية	الدور الثاني			الدور الأول				المواد الدراسية	ر.م
المجموع	نظري	شفوي	عملي	نظري	شفوي	عملي	أعمال السنة		
100	70	10	20	50	10	20	20	علم الأمراض العامة General Pathology	1
100	70	10	20	50	10	20	20	علم الأحياء الدقيقة Microbiology	2
100	70	10	20	50	10	20	20	علم الأدوية Pharmacology	3
100	70	10	20	50	10	20	20	العلاج التحفظي وعلاج الجذور Conservative dentistry 1 and Endodontics I	4
100	70	10	20	50	10	20	20	الاستعاضة السنية المتحركة 1 Removable Prosthodontics I	5
100	70	10	20	50	10	20	20	الاستعاضة السنية الثابتة 1 Fixed Prosthodontics I	6
100	70	10	20	50	10	20	20	أنسجة الفم Oral Histology	7

درجات الدور الأول والدور الثاني(للمرحلة السريرية) السنة الرابع

الدرجة النهائية	الدور الثاني			الدور الأول				المواد الدراسية	ر.م
المجموع	نظري	شفوي	عملي	المجموع	نظري	شفوي	عملي	أعمال السنة	
100	60	10	30	100	40	10	30	20	الباطنة العامة General Medicine	1
100	60	10	30	100	40	10	30	20	الجراحة العامة General surgery	2

القرارات

3	أمراض الفم Oral Pathology	20	30	10	40	100	30	10	60	100
4	طب الأسنان الوقائي Preventive dentistry	20	30	10	40	100	30	10	60	100
4	العلاج التحفظي وعلاج الجذور 2 Conservative dentistry and Endodontics II	20	30	10	40	100	30	10	60	100
5	الاستعاضة السنية المتحركة 2 Removable Prosthodontics II	20	30	10	40	100	30	10	60	100
6	الاستعاضة السنية الثابتة 2 Fixed Prosthodontics II	20	30	10	40	100	30	10	60	100
7	جراحة الفم والوجه والفكين 1 Oral and Maxillofacial Surgery I	20	30	10	40	100	30	10	60	100
8	Periodontics أمراض وعلاج اللثة	20	30	10	40	100	30	10	60	100
9	Oral Medicine Diagnosis and Radiology طب الفم والتشخيص والأشعة	20	30	10	40	100	30	10	60	100

درجات الدور الأول والدور الثاني (للمرحلة السريرية) السنة الخامسة

رقم	المواد الدراسية	الدور الأول				الدور الثاني			الدرجة النهائية
		أعمال السنة	عملي	شفوي	نظري	عملي	شفوي	نظري	المجموع
1	العلاج التحفظي وعلاج الجذور Conservative dentistry and Endodontics III	20	30	10	40	30	10	60	100
2	الاستعاضة السنية المتحركة Removable Prosthodontics III	20	30	10	40	30	10	60	100
3	الاستعاضة السنية الثابتة 3 Fixed Prosthodontics III	20	30	10	40	30	10	60	100

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4	جراحة الفم والوجه والفكين Oral and Maxillofacial Surgery II	20	30	10	40	30	10	60	100
5	أمراض وعلاج اللثة Periodontology II	20	30	10	40	30	10	60	100
6	طب الفم والتشخيص والاشعة Oral Medicine, Diagnosis and Radiology II	20	30	10	40	30	10	60	100
7	طب أسنان الأطفال Pedodontics	20	30	10	40	30	10	60	100
8	تقويم الأسنان Orthodontics	20	30	10	40	30	10	60	100
9	طب اسنان المجتمع Community Dentistry	20	30	10	40	30	10	60	100

مادة ((21)) الرسوب والنجاح

اولاً:يعتبر الطالب راسباً في أي مادة من مقررات المرحلة ما قبل السريرية والمرحلة السريرية في الحالات الآتية:

1. إذا تحصل على أقل من ستين بالمائة (60%) من مجموع الدرجات المقررة في المادة الواحدة.
2. إذا تحصل على أقل من خمسة وثلاثين بالمائة (35%) من مجموع درجات الامتحان التحريري مهما كان مجموع درجاته في تلك المادة.
3. إذا تحصل الطالب على أقل من ستين بالمائة (60%) من مجموع درجات الامتحان العملي أوالسريري مهما كان مجموع درجاته في تلك المادة.
4. إذا تحصل الطالب على أقل من ستين بالمائة (60%) من مجموع درجة الامتحان العملي مهما كان مجموع درجاته في المرحلة السريرية للسنة الثالثة والسنة الرابعة.

ثانياً: تحديد التقديرات للمقررات الدراسية والتقدير العام.

1. بالنسبة لمقررات السنة الأولى والثانية والثالثة والرابعة و الخامسة تكون التقديرات حسب النسبة المئوية كالتالي:

ت	النسبة المئوية	التقديـر
1	من ((85%)) إلى ((100%))	ممتـــاز

2	من ((75%)) إلى أقل من ((85%))	جيـد جدًا
3	من ((65%)) إلى أقل من ((75%))	جيـــد
4	من ((60%)) إلى أقل من ((65%))	مقبـــول
5	من ((35%)) إلى أقل من ((60%))	ضعيـــف
6	من ((00%)) إلى أقل من ((35%))	ضعيف جدًا

مادة ((22)) لجنة الامتحانات والمراقبة

يُكلف رئيس لجنة الامتحانات والمراقبة بقرار من مجلس الكلية، مع بداية كل عام دراسي، على أن يقوم رئيس اللجنة بإحالة كشف بأسماء رؤساء وأعضاء اللجان الفرعية والملاحظين لاعتمادها من عميد الكلية.

كما تختص لجنة الامتحانات والمراقبة بكل ما يتعلق بسير الامتحانات وتنظيمها والتي تعقد بنهاية كل عام دراسي وتقوم بالمهام الآتية:

1. مراجعة قوائم الطلبة المسموح لهم بدخول الامتحانات النهائية، وكذلك مراجعة جدول الامتحانات النهائية وإعلانه للطلبة، وإبلاغ أعضاء هيئة التدريس بصورة رسمية به، وذلك بعد اعتماده من عميد الكلية (المشرف العام).
2. تجهيز القاعات الدراسية بما يتماشى مع ضبط الامتحانات النهائية، وتوزيع الطلبة على هذه القاعات في شكل مجموعات لأكثر من مقرر في القاعة الواحدة.
3. الإعلان عن التعليمات التي تراها مناسبة لضبط الامتحانات؛ لتكون معلومة مسبقاً لدى الطلبة.
4. استلام أسئلة الامتحانات النهائية من أعضاء هيئة التدريس بعدد الطلبة قبل موعد الامتحان بوقت كافٍ يقدره رئيس اللجنة.
5. تشكيل لجان الإشراف والمراقبة ووضع برنامج زمني للإشراف متضمناً أسماء أعضاء هيئة التدريس, كما يجوز للجنة الاستعانة بالمعيدين، وكذلك الموظفين من داخل الكلية، وذلك بعد موافقة عميد الكلية.
6. استلام كشف حضورالامتحانات النهائية بأسماء الطلبة في كل مقرر من الدراسة والامتحانات.
7. القيام بإجراءات ضبط حالات الغش والإخلال بسير نظام الامتحانات و المراقبة, وإحالتها إلى عميد الكلية لاتخاذ الإجراء القانوني حيالها.
8. تسليم كراسات الإجابة وكشف حضور الامتحان للطلبة بصورة رسمية إلى كل عضو هيئة تدريس مكلف بتدريس مقرر دراسي، ويقوم بتصحيح كراسات الإجابة بالإضافة إلى نموذج تعبئة النتيجة.
9. استلام أوراق الإجابة المصححة من عضو هيئة التدريس المكلف بتدريس المقرر الدراسي، بالإضافة إلى نموذج تعبئة النتيجة، والذي يحال إلى القسم العلمي المختص وعميد الكلية لاعتماده.

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10. إدخال النتائج النهائية للطلبة بمنظومة الدراسة والامتحانات من واقع نماذج النتائج النهائية المعتمدة، ومراجعتها تحت إشراف رئيس قسم الدراسة والامتحانات بالكلية.
11. إعلان النتائج النهائية للعام الدراسي للكلية دفعة واحدة، وفي شكل قوائم تتضمن رقم قيد الطالب، واسمه، ونتائج المقررات التي قام بدراستها خلال العام الدراسي ، بعد اعتمادها من عميد الكلية.
12. الإعلان عن موعد ومكان تقديم طلبات مراجعة إجابات الطلاب.
13. إحالة النتائج النهائية (الأصل وصورة ورقية وأخرى إلكترونية) إلى رئيس قسم الدراسة والامتحانات للاحتفاظ بها.

مادة ((23)) المحظورات في الامتحانات

يُحظرعلى الطالب المتقدم للامتحان ما يلي:

1. اصطحاب أي كتاب أو ورقة ولو كانت خالية من الكتابة، أو اصطحاب أية أدوات عليها كتابة لها علاقة بمادة الامتحان، أو أية وسيلة أخرى يمكن أن تستخدم لنقل المعلومات في الامتحان.
2. الكلام أثناء الامتحانات، أو القيام بأي عمل من شأنه الإخلال بنظام الامتحان وفق التعليمات التي تصدرها لجنة الامتحانات والمراقبة.
3. اصطحاب الهاتف المحمول والساعات الذكية أو غيرها من الأجهزة التي يمكن استخدامها للغش في الامتحان.
4. الحضور بدون بطاقة التعريف الممنوحة من مكتب مسجل الكلية.
5. يُمنع الطالب من دخول قاعة الامتحان بعد مضي نصف ساعة من بداية الامتحان، كما لا يسمح له بالخروج من قاعة الامتحان قبل مضي نصف الزمن المحدد للامتحان عدا الحالات التي تسمح بها لجنة الامتحانات والمراقبة.

مادة ((24)) الغياب عن الامتحانات

1. الامتحانات الجزئية : إذا تغيب الطالب عن أداء الامتحانات النصفية (الجزئية) في أي مقرر ترصد له درجة "صفر" في ذلك الامتحان مالم يتقدم بأحد المبررات خلال " أسبوع" من نهاية الامتحان الذي تغيب عنه شرط موافقة قسم الدراسة والامتحانات بالتنسيق مع رئيس القسم المعني ويسمح بإعادة الامتحان النصفي مرة واحدة فقط، والمبررات هي:
   أ. إذا كان الطالب المعني نزيلاً بالمستشفى مع إحضار ما يفيد ذلك مصدقاً ممن يراه مجلس الكلية مناسباً.
   ب. في حالة وفاة أحد أقارب الطالب من الدرجة الأولى فقط على أن يثبت ذلك بموجب شهادة وفاة رسمية أو صورة منها.

2. الامتحانات النهائية : لايجوز إعادة الامتحان النهائي النظري مهما كانت الظروف وفي حالة تم تقديم مبررعذر الطالب المتغيب وفق الشروط السابقة فيحتفظ بأعمال السنة فقط ويحتسب الدور الثاني للطالب كدور أول مع فقدان فرصة الدور الثاني.

مادة ((25)) مراجعة نتائج الامتحانات النهائية

يحق للطالب الراسب تقديم طلب المراجعة فيما لا يزيد عن مقررين دراسيين في الشق النظري فقط خلال بحر "03" أيام ، و تشكل لجان المراجعة في نهاية كل سنة دراسية تختص بمراجعة إجابات الطلاب المتقدمين بالتظلم على نتائجهم للتأكد من دقة عملية التقييم، وتتكون كل لجنة من ثلاثة أعضاء هيئة تدريس لهم اختصاص في مجال المقرر المقيد للمراجعة وبحضور الطالب المعني، فإذا ثبت صحة ادعاء الطالب يتم تعديل نتيجة المقرر الدراسي مع تقرير حول سبب التعديل، وإذا لم يثبت صحة ادعائه تبقى النتيجة المطعون فيها على حالها، ولا تعتبر نتيجة المراجعة نافذة إلا بعد اعتمادها من القسم العلمي المختص، واعتمادها من عميد الكلية ويجب أن يتم النظر في الطعن والبث فيه على وجه السرعة.

مادة ((26)) إفادة التخرج وكشف الدرجات

يتم اعتماد نتيجة الامتحانات النهائية من قبل لجنة الامتحانات والمراقبة وعميد الكلية ، مرفقة بتقرير يوضح نسب نجاح الطلبة ورسوبهم إلى مجلس الكلية، وتعتمد النتائج النهائية للتخرج من قبل مجلس الجامعة.

مادة ((27)) إثبات المستوى العلمي

يحق للطالب المقيد بالكلية الحصول على إفادة بوضعه الدراسي (إثبات مستوى)، معتمدة من مسجل الكلية، كما يحق له الحصول على كشف بدرجات المقررات المعتمدة التي درسها، من قسم الدراسة والامتحانات وعميد الكلية.

مادة ((28)) الإفادة وكشف الدرجات

يُمنح الخريج إفادة وكشف درجات تفيد بتخرجه باللغتين العربية والانجليزية ، تشمل اسمه وتقديره العام وسنة حصوله على إجازة البكالوريوس ، بحيث يعتمد كشف الدرجات من مسجل الكلية وعميد الكليه، وكذلك إفادة التخرج تعتمد من المسجل وعميد الكلية.

مادة ((29)) مرتبة الشرف

تمنح مرتبة الشرف للطالب الذي لا يقل تقديره العام عن ممتاز ولا يقل تقديره في أي سنة من السنوات الدراسية عن جيد جداً ويشترط لمنح مرتبة الشرف أيضاً الا يكون الطالب قد رسب في أي امتحان تقدم له أو صدر ضده قرار تأديبي طيلة مدة دراسته الجامعية.

مادة ((30)) الشهادة الجدارية

يمنح الخريج شهادة جدارية معتمدة من قبل مسجل عام الجامعة وعميد الكلية ورئيس الجامعة.

الفصل الخامس: مرحلة التدريب التكميلى (الامتياز)

مادة ((31)) مدة التدريب التكميلي

هذه المرحلة مدتها سنة ميلادية كاملة وهي مرحلة إلزامية حتي يسمح لخريج كلية طب وجراحة الفم والأسنان مزاولة المهنة ويتلقى فيها طبيب الامتياز التدريب السريرى بالعيادات التابعة للكلية أو أحد المستشفيات التعليمية الحكوميه.

مادة ((32)) التدريب

التدريب إلزامي وهو جزء لا يتجزأ من منهج التعليم الطبي لكلية طب وجراحة الفم والأسنان لجميع الطلبة الذين أنهوا السنة النهائية ويشترط له نجاح الطالب في جميع المقررات التي درسها بجميع المراحل ولايسمح له بمزاولة المهنة إلا بعد إنهاء هذه المرحلة.

مادة ((33)) الإمتياز

يسمي الطالب أثناء قضائه فترة التدريب " طبيب امتياز" وتنطبق عليه جميع الأحكام التي تطبق علي الطلاب بجميع مراحل الدراسة بالكلية.

مادة ((34)) أماكن التدريب

يتم التدريب التكميلي في العيادة التعليمية بالكلية ويجوز للجامعة تحديد غيرها من المؤسسات العلاجية والتشخيصية للقيام بمهمة التدريب بناء علي اقتراح من المجلس العلمي بالكلية إذا توفرت فيها الشروط التي يضعها المجلس العلمي بالكلية.

مادة ((35)) ضوابط التدريب التكميلي " الامتياز"

مدة التدريب التكميلي سنة ميلادية كاملة ويجوز تمديدها وفق الضوابط الآتية:

أ. من قبل القسم المختص بالتدريب إذا تجاوز غياب طبيب الامتياز(20 %) من مدة التدريب المقررة بالقسم ويكون التمديد لمدة تساوي مدة الغياب إذا كان سبب الغياب مشروعاً وبضعف المدة إذا كان الغياب غير مشروع .

ب. من قبل المجلس العلمي للكلية وذلك بإعادة مدة التدريب إذا تحصل طبيب الامتياز علي تقدير ضعيف في أي مرحلة من مراحل التدريب علي أن يعيد تدريب ذلك المقرر بنفس المدة .

مادة ((36)) مستوى التدريب

يراعي الابتعاد في توجيه الطلبة للتخصصات الدقيقة والتي تتعدي إمكانية الطالب وكذلك ضرورة أن يتخلل البرنامج التدريبي لأطباء الامتياز تدريس العلوم الحديثة وأساسيات طرق البحث وعلم الإحصاء الطبي والحاسوب وشبكة المعلومات الدولية من أجل تطوير قدراتهم المهنية والعلمية والوصول الي الاهداف المحددة لهذه المرحلة، وبذلك يكون توزيع مدة التدريب التكميلي علي النحو التالي:

ت	المقرر	الفترة الزمنية
01	الاستعاضة السنية الثابتة	(شـــهرواحـــد)
02	الاستعاضة السنية المتحركة	(شـــهرواحـــد)
03	العلاج التحفظي وعلاج الجذور	(شـــهـــران)
04	جراحة الفم والوجه والفكين	(شـــهـــران)
05	طب الفم والتشخيص والاشعة	(شـــهرواحـــد)
06	أمراض وعلاج اللثة	(شـــهرواحـــد)
07	تقويم الاسنان	(شـــهرواحـــد)
08	طب أسنان الأطفال	(شـــهرواحـــد)
09	طب الاسنان الوقائي و الاجتماعي	(شـــهرواحـــد)
10	شهر اختياري	(شـــهرواحـــد)

مادة ((37)) تقارير الكفاءة

1. يخضع أطباء الامتياز لنظام تقارير الكفاءة والملاحظة.
2. يتضمن التقرير بيان طبيب الامتياز من جميع النواحي التي تتصل بقيامه بمهام مهنة طب وجراحة الفم والاسنان من حيث المواظبة والسلوك والعمل العيادي والبحوث وفقاً لبطاقة الامتياز الموضحة في المادة رقم (31) من هذه اللائحة.

3. يُعد التقرير عن كل طبيب امتياز ويعد بمعرفة الأطباء المشرفين ويعبأ في بطاقة الامتياز بعد اعتمادها من رؤساء الاقسام العلمية.

مادة ((38)) واجبات طبيب الامتياز

يمارس طبيب الامتياز مهام عمله التدريبي تحت إشراف أعضاء هيئة التدريس بكلية طب وجراحة الفم والاسنان أو من يقوم مقامهم ويتولي بوجه خاص :

1. القيام بمعالجة المرضى المختارين من المشرفين أو رئيس القسم العلمي أو من يقون مقامهم.
2. الأعمال المهنية التي يري القسم تكليفه بها.
3. يلزم طبيب الامتياز أو مجموعة من أطباء الامتياز بعمل بحث تحت إشراف أحد أعضاء هيئة التدريس
4. الزيارات الميدانية للمؤسسات العامة كالمدارس لتقديم خدمة للمجتمع وللتوعيه بصحة الفم والاسنان .

مادة ((39)) آلية تقييم سنة الامتياز

يتولى رئيس القسم وضع آلية للتقييم عن سنة الامتياز على أن يشمل ذلك الحضور والالتزام بالعمل داخل الاقسام واستيفاء المتطلبات التي تقررها الاقسام وتقسم الدرجات وفق بطاقة سنة الامتياز على النحو التالي:

المواد الدراسية	مدة التدريب (بالشهر)	الحضور 30%	السلوك 10 %	العمل العيادي 40%	البحوث 20 %	المجموع 100 %	توقيع رئيس القسم
الاستعاضة السنية الثابتة	1						
الاستعاضة السنية المتحركة	1						
العلاج التحفظي وعلاج الجذور	2						
جراحة الفم والوجه والفكين	2						
طب الفم والتشخيص والاشعة	1						
أمراض وعلاج اللثة	1						
تقويم الاسنان	1						
طب أسنان الأطفال	1						
طب الاسنان الوقائي والمجتمعي	1						
شهر اختياري	1						
المجموع	12						

مادة ((40)) بطاقات الكفاءة

يتولى منسق مرحلة الامتياز خلال فترات التدريب التكميلي تدوين الملاحظات عن كل طبيب امتياز وترصد تقديرات درجة الكفاءة على البطاقات المعدة لذلك في نهاية كل مرحلة تدريبية وتحال البطاقات الي مسجل الكلية ومنه الي عميد الكلية لاعتمادها.

مادة ((41)) تقدير درجة الكفاءة

تقدر درجة الكفاءة طبقاً لتقديرات النجاح المنصوص عليها في اللائحة الداخلية للكلية وترصد بالبطاقة المعدة لذلك نهاية كل مرحلة من مراحل التدريب.

مادة ((42)) المحظورات علي طبيب الإمتياز

1. لايجوز للطبيب المشرف المسؤول جنائياً ترك طبيب الامتياز دون متابعة وتوجيهه في أدائه لعمله أو تكليفه بالتوقيع على الوثائق الطبية بمفرده أو القيام بأي عمل من شأنه أن تترتب عليه أية مسؤولية جنائية.
2. لايجوز لطبيب الامتياز القيام بالمحظورات التالية:
   أ. أن يشترك في دورات بالخارج قبل إتمام فترة التدريب المقررة.
   ب. أن يجمع بين التدريب التكميلي ومزاولة أية مهنة أخري ولو كانت طبية.
   ت. أن يبدي مشورة طبية أو عيادة مريض أو علاجه إلا تحت إشراف الطبيب المشرف وعلي وجه العموم لا يجوز له مزاولة مهنة طب جراحة الفم والاسنان بأية صفة ولو في غير أوقات التدريب المقررة .
   ث. أن يخالف التعليمات والتوجيهات الصادرة من منسق الامتياز.

مادة ((43)) ساعات التدريب الاسبوعية

يكلف طبيب الامتياز بالعمل طيلة فترة التدريب المقررة مدة " 36 " ساعة أسبوعياً.

مادة ((44)) الإجازات الطارئة والمرضية لطبيب الامتياز

يمنح طبيب الامتياز الإجازة الطارئة لسبب قهري والإجازة المرضية علي أن تعوض مدة الإجازة وفقاً للفقرة (أ) من المادة رقم (28) من هذه اللائحة.

مادة ((45)) مهام منسق مرحلة الامتياز

1. توزيع الطلبة على الأقسام العلمية المختلفة.

2. الاجتماع بطلبة المرحلة التكميلية قبل التحاقهم بالبرامج التدريبية لشرح وتوضيح أهمية هذه الفترة التدريبية وكيفية الاستفادة القصوي من برامج التدريب ، كذلك تعريفهم باللائحة التنظيمية لهذه المرحلة وذلك من خلال إصدار دليل مرحلة التدريب التكميلي.
3. عقد الاجتماعات الدورية بالاطباء المنسقين ورؤساء الأقسام لتفعيل دورهم وتعريفهم بمسؤوليتهم تجاه العملية التعليمية من أجل تحقيق أهداف البرنامج التدريبي.
4. استلام التقارير من المشرفين علي التدريب بشكل منتظم.
5. متابعة دورية ودقيقة لعملية التدريب بالاقسام المختلفة عن طريق المشرفين في الأقسام.
6. استلام تقارير الكفاءة بالنماذج المعدة لذلك من الأطباء المشرفين في الأقسام ورصد الدرجات المتحصل عليها في كل مرحلة ثم تحديد التقرير العام لسنة الامتياز في الشهادة النهائية التكميلية كما يتم رصد التقدير العام لسنة الامتياز في الشهادة العامة دون أن يحتسب ضمن المجموع الكلي لتحديد التقديرالعام لدرجة البكالوريوس.
7. تجميع البيانات عن طريق توزيع استبانات دورية على الأطباء المتدربين للتعرف علي أوجه القصور والمشاكل والعراقيل التي تواجههم.
8. استقبال الشكاوى والمشاكل وكذلك الطلبات الخاصة من قبل أطباء الامتياز والعمل على إيجاد الحلول المناسبة والرد عليها.
9. تننظيم بعض الأنشطة العلمية والاجتماعية لطلبة الامتياز في يوم علمي بمعدل مرة في السنة وكذلك الإشراف علي إصدار نشرة علمية لطلاب هذه المرحلة .
10. تشجيع الطلبة علي اقتحام تجربة العلوم الطبية من خلال برامج معدة لذلك.

المادة ((46)) مهام الأطباء المنسقين داخل الأقسام

1. التنسيق مع رؤساء الاقسام العلمية في متابعة التدريب.
2. متابعة وتقييم العملية التدريبية بالاقسام.
3. الاشراف علي كافة الانشطة العلمية والاجتماعية لأطباء الامتياز داخل الاقسام العلمية.
4. تسلم تقارير الكفاءة وتسليمها الي منسق مرحلة الامتياز.

الفصل السادس: إعادة التنسيب والفصل من الدراسة

مادة ((47)) إعادة التنسيب

يعاد تنسيب الطالب الي كلية أخري في الحالات الآتية :

1. إذا تحصل علي تقدير ضعيف جداً في نهاية أي من السنتين الدراسيتين الأوليين.
2. إذا رسب الطالب سنتين متتاليتين أياً كان متوسط تقديره العام .

3. يجوز للطلاب المتعثرين في المراحل النهائية من الدراسة الاستمرار في الدراسة بالكلية نفسها مقابل القيام بدفع الرسوم الدراسية الكاملة وتحدد هذه الرسوم بقرار من الجهة المختصة.

مادة ((48)) الفصل من الدراسة

يفصل الطالب وينتهي حقه في الدراسة بالكلية في الحالات التالية :

1. إذا انقطع عن الدراسة بدون سبب مشروع مدة سنة دراسية كاملة.
2. إذا أعيد تنسيبه وتحصل على تقدير عام ضعيف جداً في نهاية السنة الأولى أو الثانية.
3. إذا أعيد تنسيبه ورسب سنتين دراستين متتاليتين أياً كان متوسط تقديره العام.
4. إذا قضى ضعف المدة المقررة بالنسبة للطالب الذي اختار الاستمرار في الدراسة عن طريق دفع الرسوم الدراسية.

الفصل السابع : المخالفات التأديبية

مادة ((49)) الحفاظ على سمعة الكلية

على الطالب الإلتزام بأداء واجباته العلمية على أحسن وجه، والحفاظ على سمعة الجامعة والكلية، بأن يسلك في تصرفاته مسلكاً يتفق مع وضعه باعتباره طالباً جامعياً، وأن تتفق تصرفاته مع القوانين واللوائح والنظم المعمول بها في مؤسسات التعليم العالي، والأصول والتقاليد الجامعية المستقرة.

مادة ((50)) التأديب

1. يخضع الطالب للتأديب إذا ارتكب فعلاً يشكل مخالفة للقوانين واللوائح والأنظمة المعمول بها بالكلية، سواء تم الفعل داخلها أو في أي مكان من ملحقاتها، وتقع المخالفة بارتكاب فعل محظور قانوناً، ويظل الطالب خاضعاً لأحكام التأديب من تاريخ تسجيله بالدراسة في الكلية إلى زوال هذه الصفة بتخرجه أو إلغاء تسجيله.
2. تُنفذ أحكام التأديب على الطالب سواءً أقدم على ارتكاب المخالفة بصفته فاعلاً أو كان شريكاً.

مادة ((51)) إرتكاب المخافات

لا يجوز للطالب ارتكاب المخالفات التالية:

1. الاعتداء على أعضاء هيئة التدريس أو المعيدين أو العاملين أو على أحد زملائه الطلاب داخل الكلية أو خارجها.
2. الاعتداء على أموال الكلية أو المرافق التابعة لها.

3. الإخلال بنظام الدراسة والامتحانات بالكلية.
4. ارتكاب أي سلوك منافٍ للأخلاق أو يمس النظام العام والآداب العامة.

مادة ((52)) درجة المخالفات ونوعها

يُعد من المخالفات الاعتداء على أعضاء هيئة التدريس أو العاملين أو الطلاب أعمال الشجار أو الضرب أو الإيذاء أو السب أو القذف أو التهديد، ويتحقق الاعتداء إذا تم بصورة علنية وبحضور المعتدى عليه سواءً ارتكب الفعل شفاهة أو كتابة أو بالإشارة.

مادة ((53)) المحافظة على المعدات والأدوات

يُعد من مخالفات الاعتداء على أموال الكلية الاستيلاء على المعدات والأدوات التابعة لها أو إتلافها، أو على إحدى المرافق التابعة لها، سواء بجعلها غير صالحة للاستعمال كلياً أو جزئياً، وتقع المخالفة سواء تمت بصورة عمدية أو غير عمدية.

مادة ((54)) أنواع المخافات بنظام الدراسة والامتحانات

يُعد من مخالفات الإخلال بنظام الدراسة والامتحانات ما يلي:

1. تزوير المحررات الرسمية مثل الشهادات والإفادات والوثائق الرسمية، سواء كانت صادرة عن الكلية أو خارجها، إذا كانت ذات صلة بإجراءات الدراسة.
2. انتحال الشخصية سواءً لتحقيق مصلحة للفاعل أو لغيره، ويعد انتحالاً للشخصية دخول الطالب بدل طالب آخر لأداء الامتحان وتسري العقوبة على الطالبين، وكل من كان شريكاً فيها من الطلاب.
3. إثارة الفوضى أو الشغب وعرقلة سير الدراسة أو الامتحانات بأي صورة كانت.
4. التأثير على الأساتذة والعاملين فيما يخص سير الامتحانات أو التقييم أو النتائج أو غيرها مما يتعلق بشؤون الدراسة والامتحانات.
5. ممارسة أعمال الغش في الامتحانات أو الشروع فيها بأي صورة من الصور، ويعد من قبيل الشروع في الغش إدخال الطالب إلى قاعة الامتحانات أي أوراق أو أدوات أو أجهزة ذات علاقة بالمنهج الدراسي موضوع الامتحان ما لم يكن مرخصاً بإدخالها من قبل لجنة الامتحانات.
6. الامتناع عن الإدلاء بالشهادة أمام لجان التحقيق أو مجالس التأديب المشكلة وفقا لهذه اللائحة.
7. أي مخالفة للقوانين واللوائح والنظم المتعلقة بالتعليم العالي.

مادة ((55)) النظام العام للأداب

يُعد سلوكاً منافياً للأخلاق والنظام العام والآداب العامة الأفعال الآتية:

1. الاعتداء على العرض ولو تم برضى الطرف الآخر، وفي حالة الرضى يُعد الطرف الآخر شريكاً في الفعل.

2. خدش الحياء العام.
3. تعاطي أو تناول المخدرات أو المسكرات أو التعامل فيها بأي صورة من الصور.
4. تداول الأشياء الفاضحة أو توزيعها أو عرضها بأي صورة.
5. الظهور بمظهر غير لائق داخل الكلية أو إحدى ملحقاتها، أو ارتداء الأزياء المنافية للحشمة أو المبالغة في الزينة، ويشترط في الطلبة والطالبات أن يكون اللباس محتشماً ومتوافقاً مع مبادئ وقيم الدين الإسلامي الحنيف.
6. كل ما من شأنه الإخلال بالشرف، أو المساس بالآداب العامة والأخلاق وفقاً للتشريعات النافذة.

وفي جميع الأحوال إذا شكل السلوك جريمة جنائية يتوجب على الكلية إبلاغ الجهات المختصة.

الفصل الثامن: العقوبات التأديبيّة

مادة ((56)) العقوبات

يعاقب الطّالب بالإيقاف عن الدراسة لمدة لا تقل عن سنتين دراسيتين إذا ارتكب أحد الأفعال المنصوص عليها في المادة ((47)) من هذه اللائحة، ويُفصل الطالب من الكلية إذا كان عائداً.

مادة ((57)) الإيقاف عن الدراسة

يعاقب الطّالب بالإيقاف عن الدراسة لمدة لا تقل عن سنة دراسية إذا ارتكب أحد الأفعال المنصوص عليها في المادة ((48)) من هذه اللائحة ، وتضاعف العقوبة عند العود، وفي جميع الأحوال لا يجوز عودة الطالب لمواصلة الدراسة إلاّ إذا دفع قيمة الأضرار التي أحدثها بأموال الجامعة وملحقاتها.

مادة ((58)) العبث بالمعدات والأدوات

يعاقب الطّالب عند ارتكابه إحدى المخالفات المنصوص عليها في المادة ((49)) من هذه اللائحة بالعقوبات التالية:

1. الوقف عن الدراسة لمدة لا تقل عن سنة دراسية (فصلين دراسيين) ولا تزيد على سنتين دراسيّتين (أربعة فصول دراسية) كل من ارتكب المخالفات الواردة في الفقرتين ((1 ، 2)) من المادة المذكورة، ويفصل الطالب من الدراسة فصلاً نهائياً عند العود.
2. الحرمان من دخول الامتحانات كلياً أو جزئياً إذا ارتكب المخالفات المحددة في الفقرتين ((3 ، 4)) من المادة المذكورة ، وفي جميع الأحوال يعتبر امتحانه ملغياً في المادة التي ارتكب فيها المخالفة.
3. إلغاء نتيجة امتحان الطالب في دور واحد (فصل دراسي واحد) على الأقل إذا ارتكب المخالفة الوارد بيانها في الفقرة ((5)) من المادة المذكورة، ويجوز لمجلس التأديب إلغاء امتحانه لسنة كاملة (فصلين دراسيين) ويفصل الطالب فصلاً نهائياً عند العود.
4. الحرمان من حقوق الطالب النّظامي أو الإيقاف عن الدراسة مدة لا تزيد على سنة دراسية واحدة إذا ارتكب إحدى المخالفات المنصوص عليها في الفقرتين ((6. 7)) من المادة المذكورة.

القرارات

مادة ((59)) صلاحيات لجنة المراقبة

يجوز للجنة المراقبة أو المشرفين على قاعة الامتحان تفتيش الطالب إذا وجدت قرائن تدعو للاشتباه بأن في حيازته أوراقاً أو أدوات أو أجهزة لها علاقة بالمقرر موضوع الامتحان. كما يجوز لهم إخراج الطالب من قاعة الامتحان إذا خالف تعليمات لجنة الامتحان أو بدأ في ارتكاب أعمال الغش، وفي جميع الأحوال يعتبر امتحانه ملغياً.

مادة ((60)) عقوبة الإخلال بالأداب العامة

يعاقب بالوقف عن الدراسة لمدة لا تقل عن سنة دراسية ولا تزيد على سنتين دراسيتين كل طالب ارتكب أحد الأفعال المنصوص عليها في المادة ((46)) من هذه اللائحة ، ويفصل الطالب نهائيًا عند العود، ويتوجب على عميد الكلية عند ارتكاب المخالفة المنصوص عليها في الفقرة ((5)) من المادة المذكورة، استدعاء ولي أمر الطالب ولفت نظره إلى سلوكه وتحذيره من مغبّة هذا السلوك، فإذا أصر الطالب على مسلكه توجب الاستمرار في إجراءات التأديب.

مادة ((61)) الحرمان من الامتحانات

يترتب على الإيقاف عن الدراسة حرمان الطالب من التّقدّم إلى الامتحانات طيلة مدة الوقف، ولا يجوز للطالب الانتقال إلى كلية أخرى أثناء مدة سريان العقوبة.

الفصل التاسـع: إجراءات التّأديب

مادة ((62)) الإبلاغ عن المخافات

على كل من علم بوقوع مخالفة للقوانين واللوائح والأنظمة المعمول بها في الكلّية أو الجامعة أن يقدم بلاغاً عن هذه المخالفة، يتضمن تقريراً مكتوباً عن الواقعة إلى مجلس إدارة الكلية أو الجامعة.

مادة ((63)) لجان التحقيق

يتعين على عميد الكلية فور إبلاغه عن ارتكاب إحدى المخالفات تكليف لجنة للتّحقيق من ثلاثة أعضاء من هيئة التدريس يكون أحدهم مقرراً للّجنة.

مادة ((64)) موعد التحقيق

يتم إعلام الطالب بالتحقيق معه قبل موعده بيوم كامل على الأقل، ولا يحتسب اليوم الذي تم فيه إعلامه ويجوز أن يتم التحقيق فوراً في حالات الضرورة والاستعجال.

مادة ((65)) تقرير التحقيق

يقـدم المكلف بالتحقيق تقريره بعد الانتهاء من التحقيق، أو عدم حضـور الطالب للتحقيق بالرغـم من إعلامـه به إلى اللّجنة التي كلفته.

القرارات

مادة ((66)) مجلس التأديب

إذا ما انتهت لجنة التحقيق إلى الرأي بمعاقبة الطالب تأديبياً، يتم تشكيل مجلس للتّأديب بقرار من عميد الكلّية، ويتكون من ثلاثة أعضاء من هيئة التدريس من ذوي الخبرة والدراية وعضو عن المكتب القانوني بالجامعة ومندوب عن اتحاد الطلبة (الرابطة الطلاّبيّة) ويرأس المجلس أقدم أعضاء هيئة التدريس. ويتم إعلان من تقرر إحالته على المجلس المذكور بالموعد الذي ينبغي فيه المثول أمامه وذلك خلال مدة لا تقل عن ثلاثة أيام، ولا يحتسب اليوم الذي تم فيه الإعلان من بينها، وفي حال عدم الحضور يصدر المجلس قراره غيابيًا، ويتم إعلام الطالب عن طريق لوحة الإعلانات بالكلّية، ولا يجوز لمن اشترك في لجنة التحقيق أن يكون عضوًا بمجلس التأديب.

مادة ((67)) قرار مجلس التأديب

يصدر مجلس التأديب قراره بعد سماع أقوال الطالب، ويجوز للمجلس استدعاء الشهود كما يجوز له استدعاء من قام بالتحقيق.

مادة ((68)) لجنة التحقيق

يتولى رئيس الجامعة تشكيل لجان التحقيق أو مجالس التأديب فيما يتعلق بالقضايا التي تخص أكثر من كلية في إطار الجامعة.

مادة ((69)) الإعلان على موعد التحقيق

يتم الإعلان عن موعد التحقيق أو التأديب بلوحة الإعلانات في الكلية المسجل بها الطالب، ويعتبر ذلك قرينة على العلم به.

مادة ((70)) قرار مجلس التأديب

يصدر مجلس التأديب قراراته بأغلبية أصوات الأعضاء، ولا تُعد نافذة إلا بعد اعتمادها من مجلس إدارة الكلية، أما القرارات الصادرة عن المجلس بالفصل فلا تعد نافذة إلا بعد اعتمادها من مجلس إدارة الجامعة، وتبلّغ كافّة الجامعات والمعاهد العليا داخل ليبيا بالقرار وذلك للحيلولة دون تسجيل الطالب المفصول في أي منها.

مادة ((71)) إعلان قرار مجلس التأديب

يُعلن قرار مجلس التأديب بلوحة الإعلانات في الكلية المسجل بها الطالب، وتودع نسخة ثانية بالملف الشخصي للطالب.

مادة ((72)) إنقضاء الدعوة التأديبية

تنقضي الدعوة التأديبية بوفاة الطالب أو انسحابه من الكلية ولا يؤثر انقضاء الدعوى التأديبية أو الحكم فيها على الدعوى الجنائية أو المدنية الناشئة عن الواقعة.

مادة ((73)) الطعن في قرارات المجالس التأديبية

تعتبر قرارات المجالس التأديبية التي تصدر طبقاً لأحكام هذه اللائحة نهائية بعد اعتمادها ولا يجوز الاعتراض عليها إلا بالطعن فيها أمام المحكمة المختصة.

الفصل العاشـر: أحكـام عامـة وختاميـة

مادة ((74)) تعديل أحكام اللائحة

يجوز تعديل الأحكام الواردة في هذه اللائحة بالإضافة أو الإلغاء وفقاً للتشريعات النافذة.

مادة ((75)) سريان أحكام اللائحة

تسـري أحكـام هــذه اللائحـة اعتبــاراً من تاريـخ اعتمادهــا، وتسرى أحكام لائحة تنظيم التعليم العالي الصادرة بقرار اللجنة الشعبية العامة "سابقاً " رقم ((501)) لسنة 2010م على كل ما لم يرد بشأنه نص في هذه اللائحة، ولا يسري أي حكم يخالفها.

يعتمد/

تاريخ الاعتماد:...../...../2022 م

المقررات الدراسية

Operative Dentistry Pre-Clinical Course

1	**Course name**	Operative Dentistry pre-clinical course. Second year program
2	**Course Code**	203
3	**Course type: /general/specialty/optional**	general
4	**Accredited units**	
5	**Educational hours**	3 hours per week
6	**Pre-requisite requirements**	
7	**Program offered the course**	
8	**Instruction Language**	English
9	**Date of course approval**	08.06.2021

Brief Description:	This course will provide students the understanding of the fundamental concepts of the operative dentistry.
Textbooks required for this Course:	1-Sturdevant's Art and Science of Operative Dentistry. 2. Pickard's Manual of Operative Dentistry.
Course Duration	4 hours/week
Delivery	1- Department Hand-Outs: available for all students. 2- Slides and computer presentations used during teaching. 3-Text book references available in the library. . Sturdivant's Art and Science of Operative Dentistry. . Pickard's Manual of Operative Dentistry.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: • understanding of the various restorative materials regarding their manipulation, limitation and demands. • Identify 1-The basic terminology related to operative dentistry. 2. The basic terminology related to cavity classifications, designs, and features. 3. Instruments and instrumentation. 4. The fundamental principles and steps of tooth preparations. 5. Dental anatomy, tooth form and occlusion.

	6. Pulp protective agents. 7. Matrixing. 8. Silver amalgam indications, contra indication, advantages disadvantages and manipulation. 9 Direct tooth-colored restorations, indications, contra indications, advantages, disadvantages, and manipulation. 10 Caries and no caries lesions. • Recognize differentiation 1-Differentiate between different cavities designs. 2. Differentiate between caries and no caries lesions. 3. Differentiate between hand instruments and rotary one. 4. Recognize the differences between amalgam and direct tooth colored restoration. • Develop a practical skill 1-Carry out the laboratory steps resulting in satisfactory cavities for all classes. 2. Determine when, how and where to use hand cutting instruments. 3. Insert and adjust matrices and retainers. Restore the cavity to an acceptable form, function and aesthetics. 4. Perform amalgam and composite restorations.
Course Assessments	Midterm assessment exam: 30 marks Final examination. Written 30 marks Oral 10 marks practical 3o marks TOTAL 100
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Topics to be covered in the session (week) • Introduction in operative dentistry. •Lesion affecting hard tissue of teeth.
Session 2 (Week 2)	Topics to be covered in the session (week) Cavity nomenclature and classification.
Session 3 (Week 3)	Topics to be covered in the session (week) Fundamental of cavity preparation.
Session 4 (Week 4)	Instruments and equipment for tooth preparation.
Session 5 (Week 5)	Topics to be covered in the session (week). Pulp protection agents.
Session 6 (Week 6)	Topics to be covered in the session (week) •Matrixing, Retainers and wedging.
Session 7(Week 7)	Midterm Exam
Session 8(week8)	Topics to be covered in the session (week) • Silver amalgam restorations

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Session 9 (Week 9) **Session 14 (Week 14)**	Topics to be covered in the session (week) • direct tooth colored restoration.
Session 16 (Week 16)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.

Operative Dentistry Pre-Clinical Course -Second Year Program

1	**Course name**	Operative Dentistry pre-clinical course - Second year program
2	**Course Code**	203
3	**Course type: /general/specialty/optional**	general
4	**Accredited units**	
5	**Educational hours**	3 hours per week
6	**Pre-requisite requirements**	
7	**Program offered the course**	
8	**Instruction Language**	English
9	**Date of course approval**	08.06.2021
Brief Description:	This course will provide students the understanding of the fundamental concepts of the operative dentistry.	
Textbooks required for this Course:	1-Sturdevant's Art and Science of Operative Dentistry. 2. Pickard's Manual of Operative Dentistry.	
Course Duration	4 hours/week	

Delivery	1-Department Hand-Outs: available for all students. 2-Slides and computer presentations used during teaching. 3-Text book references available in the library. . Sturdivant's Art and Science of Operative Dentistry. . Pickard's Manual of Operative Dentistry.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: • understanding of the various restorative materials regarding their manipulation, limitation and demands. • Identify 1-The basic terminology related to operative dentistry. 2. The basic terminology related to cavity classifications, designs, and features. 3. Instruments and instrumentation. 4. The fundamental principles and steps of tooth preparations. 5. Dental anatomy, tooth form and occlusion. 6. Pulp protective agents. 7. Matrixing. 8. Silver amalgam indications, contra indication, advantages disadvantages and manipulation. 9 Direct tooth-colored restorations, indications, contra indications, advantages, disadvantages, and manipulation. 10 Caries and no caries lesions. • Recognize differentiation 1-Differentiate between different cavities designs. 2. Differentiate between caries and no caries lesions. 3. Differentiate between hand instruments and rotary one. 4. Recognize the differences between amalgam and direct tooth colored restoration. • Develop a practical skill 1-Carry out the laboratory steps resulting in satisfactory cavities for all classes. 2. Determine when, how and where to use hand cutting instruments. 3. Insert and adjust matrices and retainers. 4. Restore the cavity to an acceptable form, function, and aesthetics.

	5. Perform amalgam and composite restorations.
Course Assessments	Midterm assessment exam: 30 marks Final examination. Written 30 marks Oral 10 marks practical 3o marks TOTAL 100
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Topics to be covered in the session (week) • Introduction in operative dentistry. •Lesion affecting hard tissue of teeth.
Session 2 (Week 2)	Topics to be covered in the session (week) Cavity nomenclature and classification.
Session 3 (Week 3)	Topics to be covered in the session (week) Fundamental of cavity preparation.
Session 4 (Week 4)	Instruments and equipment for tooth preparation.
Session 5 (Week 5)	Topics to be covered in the session (week). Pulp protection agents.
Session 6 (Week 6)	Topics to be covered in the session (week) •Matrixing, Retainers and wedging.
Session 7(Week 7)	Midterm Exam
Session 8(week8)	Topics to be covered in the session (week) • Silver amalgam restorations
Session 9 (Week 9) **Session 14 (Week 14)**	Topics to be covered in the session (week) •direct tooth colored restoration.
Session 16 (Week 16)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.



Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

General Pathology – Second Year

1	**Course name**	General Pathology Second year program
2	**Course Code**	205
3	**Course type: /general/specialty/optional**	General
4	**Accredited units**	Three Units
5	**Educational hours**	Four hours per week
6	**Pre-requisite requirements**	Non
7	**Program offered the course**	BDS
8	**Instruction Language**	English
9	**Date of course approval**	15/06/2021

Brief Description	1. This course will provide a *core knowledge* of disease processes affecting the different systems, with particular reference to mechanisms and natural history of disease. 2. To highlight the pivotal role of pathology in the prevention, diagnosis, treatment, and prognosis of disease. 3. Finally, the curriculum should stimulate students' interest in pathology so that they will read and expand their core knowledge as a basis for their professional life whatever career they follow.
Textbooks requiredfor this Course	1. **Book title: Robbins Basic Pathology.** Kumar V, Abbas, AK, Aster JC. 10th ed. New York, NY, Elsevier, 2018, 2. **Department Handout.**
Course Duration	1. Lectures: :35 hrs. 2. Practical: 35hrs a- Histopathology slide lab. b- Museum of pathology. Total: 70 hrs.
Delivery	Lecture-based, active participation, Laboratory examination (histopathology slide), attendance to museum of pathology.

Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. Define and discuss the main disease categories that may affect the body (general pathology) as well as the basic mechanisms underlying these disorders (etiology, pathogenesis & natural history) 2. Describe the morphologic (gross & microscopic) changes occurring asa result of such disease processes in various organ systems. 3. Determine the fate & complications of each particular disease.
Course Assessments	Midterm Exam: 30% (Written Exam). Final Exam: 70% (Written Exam 40%, Lab Exam 20%, Oral Exam 10%). A 60 % is required for a pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course.Instructors are encouraged to use and design any assignment that may be beneficial to the student-learning outcome.
Content Breakdown Topical Coverage Lectures: Session 1 (Week 1)	**1- INTRODUCTION TO PATHOLOGY:** **Intended learning outcomes:** • Present day concept of pathology. • Identify the definition of pathology, concepts of etiology and pathogenesis. List the Method of pathologic studies and their diagnostic value. Role of experiment study.
Session 2 (Week 2)	**2- DISEASES AT CELLULAR LEVELS:** **Intended learning outcomes:** • Illustrate causes of cell injury. Define hypoxia & list the causes of it. List the mechanisms of cell injury. Identify the morphologic changes in a cell exposed to reversible cell injury. Features that characterize the irreversible cell injury. • List the consequences of injury to plasma membrane. The features of characterize cell death, Outline the nuclear changes. Define necrosis & mention the types of necrosis. Define gangrene & mention the types of gangrene. Define apoptosis. Write five differences between necrosis & apoptosis.
Session 3 (Week 3)	3- **INTRACELLULAR ACCUMMULATION:** **Intended learning outcomes:** • Define an intracellular accumulation and state their location in the cell. Outline the four main pathways (mechanisms) of abnormal intracellular accumulations. Discuss lipid intracellular accumulation in the form of triglyceride cholesterol and, cholesteryl esters and give clinicopathological manifestations (examples). • Discuss briefly; intracellular protein and glycogen accumulation in terms of causes, morphology and, associated diseases. Recognize endogenous and exogenous pigments, causes, color and, their impact on tissues. Define the pathological calcification and mention the forms (types) of calcification. Identify the morphology of calcification. List examples of dystrophic and metastatic calcification.

Session 4 (Week 4)	**4- CELLULAR ADAPTATION** **Intended learning outcomes:** • Define adaptation. Outline forms (types) of cellular adaptation. Recognize the causes of each type of cellular adaptation with examples. Discuss briefly the mechanisms of cellular Adaptation. Mention the clinical significance cellular adaptation.
Session 5 (Week 5&6)	**5- INFLAMMATION:** **Intended learning outcomes:** • Definition causes and cardinal signs of acute inflammation. • Discuss Vascular phenomenon and Changes in interstitial tissue and lymphatic. Recognize Chemical mediator of acute inflammation, Chemotaxis, and phagocytosis. • Mention types of inflammation on the basis of character of exudate, and duration. Also Types of ulcers, abscess, carbuncle, and fistula. Define Leukocytosis and leukemoid reaction. Chronic inflammation (non-specific and granulomatous), mechanism of granuloma formation. Types of giant cells.
Session 6 (Week 7)	6- **HEALING AND REPAIR:** **Intended learning outcomes:** • Illustrate the differences between repair by regeneration and connective tissue. Explain the healing of wounds (primary and secondary types). list the steps of healing of fracture. Discuss cell cycle and various growth factors.
Session 7 (Week 8)	**7-** Midterm Exam
Session 8 (Week 9, 10 & 11)	8- **DISORDER OF VASCULAR FLOW:** **Intended learning outcomes:** • Edema: Define edema. Discuss etiopathogenesis of edema with examples. List the main clinical manifestations of edema and define • some clinical terms for the disorder. Illustrate morphology of edema in different organs. Mention the clinical significance of edema. • Hemorrhage: Define hemorrhage. Name types of hemorrhage. Identify important clinical terms of internal and external hemorrhage. State the clinical significance of hemorrhage. Hyperemia: Define hyperemia and give examples. Define congestion and give examples. Compare between the hyperemia and congestion. Mention Chronic venous congestion (CVC)consequences. Illustrate morphology of chronic venous congestion inlung, liver, and spleen. • Thrombosis: Define thrombosis and thrombus. Identify three main factors that favor thrombus formation in different situations. Summarize steps of thrombus formation. Describe morphology of thrombus. Compare between the venous thrombi and postmortem clots. Compare between arterial and venous thrombi. Mention fate of thrombus. Outline the clinical conditions due to thrombus. • Embolism: Define an embolus. Memorize types of emboli and discuss the risk factors of each type. Discuss systemic thromboembolism in terms of origin (arise), the most site of embolization and,

	consequences. Discuss pulmonary thromboembolism in terms of incidence, origin (arise), risk factors and, the most clinical and pathologic features (consequence). Recognize fat embolismsyndrome, decompression sickness and caisson disease. • Infarction: Define infarction. State the causes of infarction. Describe morphology of infarction. List factors that influence the development of an infarct. Mention the fate of infarction. Shock: Define the shock. Mention the main types of shock and their causes. State the principal pathogenic mechanism of each type of shock. Outline the stages of shock.
Session 9 (Week 12 & 13)	9- **NEOPLASIA AND CARCINOGENESIS:** **Intended learning outcomes:** • Define neoplasia & mention the features of neoplasm. List the features of benign tumors. List the features that characterize the malignant tumors. • Enumerate five examples of benign tumors. Mention some examples of malignant tumors. List the features of locally malignant tumors. Enumerate some locally malignant tumors. Define carcinoma and sarcoma. Define Differentiation & Anaplasia. list the predisposing factors of neoplasia. List some precancerous conditions. Enumerate the environmental factors of neoplasia. • Mention the difference between benign & malignant & the importance of features used in grading. Define cyst & mention the types of cysts. Define tumor dormancy and Latent cancer. Mention the types of spread of malignant tumors, types of metastases. illustrate the tumors & tumors- like conditions of childhood. Define: Mixed tumors, Teratoma, Hamartoma, Choristoma. Name the most common eponymously named neoplasms. Name the most common biochemical assays. • Carcinogenesis: Define Carcinogenesis and oncogene. List the mechanisms by which proto-oncogene converted to oncogene. Define tumor suppressor genes & mention the examples of tumor suppressor genes. Write an example of molecular basis of multistep carcinogenesis in colon carcinoma. Define tumor progression & tumor heterogeneity. Define initiation & promotion. List the features of promotor Classify the carcinogenic agent.
Session 10 (Week 14 & 15)	**10- IMMUNOPATHOLOGY:** **Intended learning outcomes:** • Differentiate between the concepts of "Innate" and "Adaptive" immunity. • Hypersensitivity: Define hypersensitivity. Classify hypersensitivity reaction with examples, Outline pathogenic mechanism of each type.

	• Autoimmunity: Define autoimmunity. Discuss general principles of mechanisms of autoimmunity. Mention local and systemic examplesof autoimmune disease. Discuss systemic lupus erythematosus, Sjögren syndrome, in terms of definition, pathogenesis, morphologyand the clinical features. • Immunodeficiency Syndromes: Classify immune deficiencies, give examples. Discuss pathogenesis of HIV Infection and AIDS. • Recognize natural history and course of HIV infection. Outline briefly clinical features of AIDS. • Amyloidosis: Define amyloidosis. outline pathogenesis ofamyloidosis. Classify amyloidosis and mechanisms of amyloid Formation. Discus morphology of amyloidosis.
Session 11 (Week 16)	**11- INFECTIOUS DISEASES:** **Intended learning outcomes:** • Define of infectious disease. Discuss a few important bacterial infections (staphylococci, streptococci), actinomycosis. Tuberculosis: incidence, pathogenesis, structural detail of tuberculous bacterial primary complex, secondary tuberculosis. Features of tuberculosis in lung (in brief). Syphilis: mention the • mode of transmission, stages, signs and symptoms. Discuss the organs that involved and effects, congenital syphilis, immunology and laboratory diagnosis.
Session 12 (Week 17)	12- **GENETIC DISEASES:** **Intended learning outcomes:** • Determine commonly genetic terms used. Discrimination between commonly used terms: hereditary disorder and congenital diseases. • Identify the recall the broad classification of human genetic disorders • Identify the three patterns for the inheritance of mutation involving single gene (mendelian disorders). Distinctive features and their Examples. • Discuss Marfan syndrome, in term of etiology, clinical feature complication. Outline lysosomal storage diseases. Determine cytogeny Chromosomal disorders and their general features. • Mention the general features of down syndrome. describe briefly: The karyotype, clinical features of Klinefelter syndrome andsyndrome.

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Session 13 (Week 18)	13- **NUTRITIONAL DISEASES:** **Intended learning outcomes:** • Malnutrition: Define malnutrition. List forms of nutritional. Diseases Distinguish between major forms of protein energy malnutrition (Marasmus and Kwashiorkor). • Vitamin Deficiencies: Discuss briefly major consequences of vitamin deficiencies. Trace elements abnormalities: Memorize some trace elements abnormalities. Obesity: Define obesity. State clinical consequences/complications of obesity. • Diet and Systemic Diseases: Mention the relation between Diet and Systemic Diseases, and cancer. Injury Produced by Ionizing Radiation: Determine the effects of ionizing radiation. Effects of tobacco and alcohol: Outline effects of tobacco and alcohol.
Session 14 (Week 19)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supportedwith a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric,interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.
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B.D.S Program

1	**Course name**	B.D.S Program
2	**Course Code**	204
3	**Course type: /general/specialty/optional**	specialty
4	**Accredited units**	3 units
5	**Educational hours**	Lecture: (2 hours/week) Practical: (2hours/week)
6	**Pre-requisite requirements**	N/A
7	**Program offered the course**	Fixed prosthodontics department Second year
8	**Instruction Language**	English
9	**Date of course approval**	2020/2021

Brief Description:	This course will provide students with a fundamental understanding of the Defines what is mean by crown & bridge, determines indications, contraindications of a crown and fixed partial denture (FPD), Demonstrates the ability to perform a preparation for full coverage restoration and describes all laboratory steps for construction of crowns.
Textbooks required for this Course:	Book Title & ISBN: • Shillingburg HT, Hobo s, Whitsett LD,Jacobi R,Brackett SE,editors. Preparation for extensively damaged teeth. In: fundamentals of fixed prosthodontics. 3rd ed. Chicago: Quintessence; 1997. Additional Resources: • Rosenstiel, SF; Land, MF; and Fujimoto, J. Contemporary fixed prosthodontics. 4th ed. St Louis: Mosby-year book; 2006. Additional textbooks, handouts, and web links may be used in this course at the discretion of your instructor.
Course Duration	Lecture: (2 hours/week) Practical: (2hours/week) Total: (4 hours for weeks)
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation, Laboratory experiments.....etc.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. Understand the meaning of Fixed prosthodontics. 2- To know the basic information, which is necessary for understanding the laboratory procedures and techniques involved in the fabrication of crowns and different types of fixed partial dentures.

Course Assessments	Assignment 1: 25% Final lab: 20%, Final Exam: 40%, Periodic evaluation for student work inthe lab: 5 % , Oral 10% A 60 % is required for a pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course. Instructors are encouraged to use and design any assignment that may be beneficial to the student-learning outcome.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction to fixed partial denture terminology • To orient the fixed prosthodontics as a subject in relation to the other disciplines of dentistry. Brief history of fixed prosthodontics followed by aims and terminology.
Session 2 (Week 2)	Effect of tooth loss.
	• To make the student understand the importance of maintaining the integrity of dental arches by explaining the consequences.
Session 3 (Week 3) (Week 4)	Principles of tooth preparations for extra-coronal restorations • A detailed instruction regarding the fundamental principles involved in designing the tooth preparation for porcelain and cast metal restoration with emphasis on conservation of tooth structure, retention and resistance form, structural durability and marginal integration.
Session 4 (Week 5)	Full metal restoration. • To understand advantages & disadvantages of Full metal restoration. • To know the indications and contraindications and the detailed procedure of tooth preparation including armamentarium.
Session 5 (Week 6)	Metal ceramic restoration. • To understand advantages & disadvantages of Metal ceramic restoration. • To know the indications and contraindications and the detailed procedure of tooth preparation including armamentarium.
Session 6 (Week 7)	All ceramic restoration. • To understand advantages & disadvantages of all ceramic restoration. • To know the indication and contraindication of all ceramic restoration. • To learn step by step tooth preparation to receive all ceramicrestoration.
Session 7 (Week 8) (Week 9)	Working (definitive) casts and dies. • To learn the requirements, advantages, disadvantages, and procedure ofconstructing working casts and separate die and working cast with removable die including die-lock tray.
Session 8 (Week 10)	Midterm Exam

Session 9 (Week 11)	Wax pattern construction • To know types and requirements of casting wax. • To understand the Techniques of fabrication and method ofconstruction wax pattern and how to be finishing wax pattern.
Session 10 (Week 12) &Week 13)	Sprung, investing, and casting procedures • To describe and evaluate the sprung former requirements andTechniques, • To understand the process of investing and Wax elimination. To know casting procedure and machines and how to be finishing ofthe cast Restoration
Session 16 (Week 16)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Microbiology

1	**Course name**	Microbiology
2	**Course Code**	207
3	**Course type: /general/specialty/optional**	General
4	**Accredited units**	2 units
5	**Educational hours**	62 hours 50 Lectures + 12 Practical
6	**Pre-requisite requirements**	Biology, Cytology
7	**Program offered the course**	BDS
8	**Instruction Language**	English

9	**Date of course approval**	2020/2021
Brief Description	The microbiology course for dentistry will equipped the student with knowledge and practical skills to be able to: • State the host-parasite relationship and describe the microbial genetics and pathogenesis. (Host parasite relation & microbial pathogenicity) • Describe the cells and molecules, pathways involved in innate and adaptive immunity. • Discuss the viral, fungal and bacterial pathogens associated with oral diseases.	
Textbooks required for this Course	1-Samaranayake, Lakshman P. *Essential microbiology for dentistry.* Fourteenth Edition. *2*-Levinson, Warren. *Review of medical microbiology and immunology.*	
Course Duration	38 hour- lecture 12 hour –practical	
Delivery	1- Lectures 2- Practical sessions 3- Seminars	
Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. Understand the basics of microbiology and able to apply the knowledge relevantly. 2. Discuss the major pathogenic organisms, related disease-syndromes and their modes of spread with particular reference to dentistry. 3. Describe of the host-parasite relationship and the immune system. 4. Appraise various methods of Sterilization and disinfection in dental clinics. 5. Discuss antimicrobial resistance. 6. Discuss the oral microbial ecology and pathogenesis of oral and dental disease. 7. Apply the basic diagnostic techniques	
Course Assessments	1. Assessment exam (MCQ).....(20 marks) 2. Final exam (MCQ & short notes) .....(50 marks) 3. Oral exam .....(15 marks) 4. Practical exam.....(15 marks).	
Content Breakdown Topical Coverage	Includes all parts will discussed with the students overall the year as described in sessions below:	
Session 1 (Week 1)	Introduction and importance of microbiologyOutline the important of microbiology	
Session 2 (Week 2)	Bacterial structure and growth Discuss Bacterial structure and growth	
Session 3 (Week 3)	Bacterial genetics Discuss Bacterial genetics	
Session 4 (Week 4)	Sterilization and disinfection 1- Define Sterilization and disinfection 2- Describe the general methods used in Sterilization and disinfection	

Session 5 (Week 5)	Antibacterial agents and resistance to antibiotics 1. outline the Antibacterial mode of action and resistance to antibiotics 2. Discuss the different type of microbial resistance to antibiotics
Session 6 (Week 6)	Microbial pathogenicity Discuss the factors and types the promote Microbial pathogenicity
Session 7 (Week 7)	Innate immunity and Acquired immunity 1. Describe innate immunity, artificial active immunity, natural passive immunity, herd immunity 2. Differentiate between active and passive immunity
Session 8 (week 8)	Antigen, immunoglobulins and complement system 1. Describe hatpins, heterophile antigens and superantigens 2. Define antibody and draw labeled diagram of immunoglobulin 3. Describe structure and functions of IgG, IgA and IgM · 4. Discuss properties of IgM, IgG, IgA, IgD and IgE · 5. Draw labeled diagram of IgG, IgM and IgA. 6. Describe the sequence of events when the classical pathway and the alternative pathway of the complement system is activated · 7. Discuss biological effects of complement · 8. Describe complement deficiencies and associated diseases
Session 9 (week 9)	Immune response: cells involved in the specific Ir, the major events in the induction of Ir 1. Differentiate between primary and secondary humoral immune responses 2. · Discuss monoclonal antibodies—principle, technique, and applications · 3. Describe the following: cytokines; immunological tolerance
Session 8 (Week 8)	Midterm Exam
Session 10 (Week 10)	Hypersensitivity reaction 1. Compare major types of hypersensitivity reactions. 2. · Differentiate between immediate and delayed hypersensitivity. 3. Discuss type I, type II, type III, type IV hypersensitivity reactions: Mechanisms and examples
Session 11 (Week 11)	Autoimmune disease and immunodeficiency 1. Describe the mechanisms of autoimmunity 2. Classify autoimmune diseases · List autoimmune diseases 3. Classify and enumerate immunodeficiency diseases 4. List primary and secondary immunodeficiency syndromes
Session 12 (Week 12)	Gram positive and negative cocci of dental importance 1. Describe species of Staphylococcus, streptococcus 2. Describe morphology and culture characteristics of gram positive and gram-negative cocci
	3. List characteristics of gram positive and gram-negative cocci · 4. List and describe toxins and enzymes of gram positive and gram-negateive cocci

Session 13 (Week 13)	Oral gram-positive bacilli 1. Describe species of Oral gram-positive bacilli 2. Describe morphology and culture characteristics of Oral gram-bacilli 3. List characteristics of Oral gram-positive bacilli · 4. List and describe toxins and enzymes of Oral gram-positive bacilli
Session 14 (Week 14)	Mycobacteria 1. Classify mycobacteria · 2. Discuss morphology and culture characteristics and biochemical characteristics of Mycobacterium tuberculosis 3. · Differentiate between Mycobacterium tuberculosis and M. bovis · Describe pathogenesis of Mycobacterium tuberculosis 4. Discuss the laboratory diagnosis of pulmonary tuberculosis 5. Describe the following: Koch's phenomenon; Tuberculin test; BCG vaccine. 6. Differentiate between lepromatous and tuberculoid leprosy
Session 15 (Week 15)	Gram negative anaerobic bacilli 1. Describe species of Gram-negative anaerobic bacilli 2. Describe morphology and culture characteristics of Gram-negative anaerobic bacilli 3. List characteristics of Gram-negative anaerobic bacilli 4. List and describe toxins and enzymes of Gram negative anaerobic bacilli
Session 16 (Week 16)	Gram negative facultative bacilli 1. Describe species of Gram-negative facultative bacilli 2. Describe morphology and culture characteristics of Gram-negative facultative bacilli 3. List characteristics of Gram-negative facultative bacilli 4. List and describe toxins and enzymes of Gram-negative facultative bacilli
Session 17 (Week 17)	Basic virology: structures replications pathogenesis of viruses and lab diagnosis of viral infection: Describe structures, replications, pathogenesis of viruses and lab diagnosis of viral infection
Session 18 (Week 18)	Clinical virology: Herpes simplex infections, Hepatitis viruses, HIV, Coxsakie virus, Enterovirus, Herpangina, paramyxovirus, Rubella virus, parilloma viruses and oral manifestations of viral disease: 1. Discuss the pathogeneses, clinical manifestation, general proprieties, prevention and oral manifestations of viral disease including Herpes simplex infections, Hepatitis viruses, HIV, Coxsakie virus, Enterovirus, Herpangina, paramyxovirus, Rubella virus, parilloma viruses 2. Outline the causes and predisposing factors of viral and bacterial

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	sialadenitis 3. Describe the general properties, pathogenesis, clinical features,diagnosis, treatment, and prevention of Mumps virus.
Session 19 (Week 19)	Microbial flora of the oral cavity 1. Define the oral ecosystem and discuss its component. 2. Summarize the factors modulating microbial growth
Session 20 (Week 20)	Microbiology of the dental plaque 1. Define dental plaque and biofilms 2. Discuss the host defenses associated with oral cavity 3. Discuss the dental plaque and biofilm
Session 21 (Week 21)	Microbiology of dental caries 1. Discuss the epidemiology, classification, clinical presentation, diagnosis and control and prevention of dental caries. 2. Discuss the multifactorial concept of the dental caries 3. Outline the etiological agent associated with dental caries 4. Explain the pathogenic mechanism of dental caries
Session 22 (Week 22)	Microbiology of the periodontal disease 1. Define and classify of periodontal disease 2. Discus etiological factors of periodontal disease 3. Describe the clinical development of periodontal disease
Session 23 (Week 23)	Microbiology of endodontic infections (pulp and periapical infections)
Session 24 (Week 24)	Oral mycology: opportunistic mycotic infections, and candidiasis of the mucous membrane, pathogenesis and treatment 1. Discuss fungal pathogenesis 2. Classify fungal disease with example of each class 3. Discuss the general properties of candida albicans 4. Discuss the causative agents and the classification, clinical manifestation of oral candidiasis. 5. Discuss opportunistic mycotic infections
Session 25 (Week 25)	Lab safety and microbiology equipment: Identify Lab safety and microbiology equipment
Session 26 (Week 26)	Sterilization and disinfection 1. Define Sterilization and disinfection 2. Apply Sterilization and disinfection procedure.
Session 27 (Week 27)	Culture media 1. Classify culture media 2. Prepare different culture media
Session 28 (Week 29)	Staining in microbiology Performing microbiological staining
Session 29 (Week 29)	Serology Demonstrate the principle of serological testing Apply available serological test
Session 30 (Week 30)	Diagnostic virology Apply different diagnostic virological testing including their principle (PCR)
Session 31 (Week 31)	Diagnostic mycology Apply KOH Illustrate the different morphology of fungi

Session 16 (Week 16)	Final Exam
Attendance Expectations	Students are expected to dress appropriately and must be in accordance with the faculty's dress code policy.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
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Oral Histology

1	**Course name**	Oral Histology
2	**Course Code**	201
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	82 hrs
5	**Educational hours**	2hrs/week
6	**Pre-requisite requirements**	English, Biology, General Histology
7	**Program offered the course**	B.D.S
8	**Instruction Language**	English
9	**Date of course approval**	1.1.2021

Brief Description:	This course will provide students with adequate information on embryologyof the face and oral cavity as well as the Para-dental development of all oral tissues, and to explain the microscopical structure of the tooth, oral mucosa, Tempromandibular joint, maxillary sinus, and salivary gland.
Textbooks required for this Course:	1. Bhaskar, S.N. (1990), orban's oral histology and embryology. 2. Ten Cate, A.R. (1994), oral histology. 3. Avery, J. (1992), essentials of oral histology and embryology. 4. Berkovitz, B.K. et al. (1992), a color atlas and text of oral anatomy, histology and embryology. 5. Lecture presentation and notes.
Course Duration	42 hrs.
Delivery	Lecture-based, Group interaction and discussion and practical works.

Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: • Describe the embryology and growth of the tissue of the oral and facial region in the prenatal life • Describe the development of the structure in the head and neck • Describe the general development of the teeth and associated structure and recognize the normal and abnormal development. • Describe the histology, physiological and chemical characteristic of hard structure such as enamel, dentin, Cementum, and bone as well as soft structure such as pulp tissue, periodontal ligament, salivary gland, and oral mucosa • Explain the age changes and clinical consideration of oral structures • Recognize the relationship between the normal oral structure and their function Recognize the basic line of development and normal centric occlusion • Draw and label the histological structure of teeth and oral tissue • Recognize the clinical consideration of dental structure • Evaluate the different events that occur during the prenatal and postnatal development. • Know and illustrate the histological structure of dental tissue under light microscope • Examine the normal appearance of the tissue of oral cavity and detect any abnormal deviation
Course Assessments	Half Exam: 30% Final Exam: 70% Final (Written Exam: 40% - Practical Exam: 20% - objective Exam: 10%)A 60% is required for a pass in this course. Homework & Practical work Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course, also to attend the practical sessions.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Embryology • Development of the three germ layers and taratogen • Development of the branchial arches (pituitary and parathyroid glands) • Development of the face (facial processes) • Development of the primary and secondary palate
Session 2 (Week 2)	Embryology • Development of the tongue • Development of mandible and maxilla • Formation of neural crest and its derivatives

Session 3 (Week 3)	Tooth development • Dental lamina and functions of dental lamina • Bud stage • Cap stage • Early bell stage
Session 4 (Week 4)	Tooth development • Late bell stage • Formation of the deciduous and permanent dentition • Root formation in the uni-rooted teeth • Root formation in multi-rooted teeth • Epithelio-mesenchymal interaction during tooth development
Session 5 (Week 5)	Enamel • Physical and chemical properties • Unit structure, enamel rod, rod sheath, inter-rod substance • Dentinoenamel junction • Incremental lines, neonatal lines • Enamel lamella • Enamel tufts • Enamel spindle • Hunter schreger phenomenon • gnarled enamel
Session 6 (Week 6)	Enamel • Life cycle of ameloblasts • Amelogenesis • Surface structures of the enaml • Age changes of enamel • Clinical consideration
Session 7 (Week 7)	Dentine and pulp complex • Physical and chemical properties of dentine
	• Unit structures of dentine, dentinal tubules, intertubular dentine, peritubular dentine, odontoblastic process • Incremental lines of dentine • Interglobular dentine • Tome's granules • Types of dentine • Dentinogensis • Age changes of dentine • Clinical consideration
Session 8 (Week 8)	Midterm Exam

Session 9 (Week 9)	Dentine and pulp complex • Cells of the pulp • Blood vessels of the pulp • Nerve supply of the pulp • Lymphatic drainage of the pulp • Development and function of the pulp • Age changes of the pulp • Clinical consideration
Session 10 (Week 10)	Cementum • Physical and chemical properties, structure and function • Classification of cementum • Types of cementum • Incremental lines of cementum • Cemento-enamel junction • dentino-cemental junction • Cementogenesis • Age changes of cementum • Clinical consideration
Session 11 (Week 11)	Periodontal ligament • Definition • Development • Fibers of the periodontal ligament • Cells of periodontal ligament • The matrix • Blood vessels and nerve supply of the periodontal ligament • Lymphatic drainage • Calcified bodies in the periodontal ligament • Epithelial rests of Malassez • Age changes of the periodontal ligament • Function of the periodontal ligament • Clinical consideration of the periodontal ligament
Session 12 (Week 12)	Bone development • Definition • Types of bone
	• Alveolar bone • Lamellar bone • Non-lamellar bone
Session 13 (Week 13)	Bone development • Bundle bone • Histology of the bone • Bone turnover • Agents affecting tooth and bone development • Clinical consideration



Session 14 (Week 14)	Salivary glands and saliva • Definition and development • Classification • Structures of salivary glands (acini, duct system, myoepithelial cells) • Nerve supply • Histology of salivary glands
Session 15 (Week 15)	Salivary gland and saliva • classification of salivary glands • Mucous ring • Functions of salivary gland • Composition of saliva • Function of saliva • Age changes
Session 16 (Week 16)	Oral mucosa and mucous membrane • Definition • Classification and subdivision of oral mucosa • Masticatory mucosa • Lining mucosa
Session 17 (Week 17)	Oral mucosa and mucous membrane • Specialized mucosa • Histology of oral mucosa • Dentino-gingival junction
Session 18 (Week 18)	Oral mucosa and mucous membrane • Gingival sulcus • Junctional epithelium • Tonsils • Mucosa of the tongue and the taste buds
Session 19 (Week 19)	Eruption and shedding • Definition • Mechanism of eruption and shedding • Phases of eruption and shedding • Clinical consideration
Session 20 (Week 20)	Final Exam
Attendance	Students are expected to attend every session of class, arriving on time,
Expectations	returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supportedwith a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric,computer, interpersonal communications, and critical thinking skills will be embedded in all courses.



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Removable Prosthodontics (second year)

1	**Course name**	Removable prosthodontics
2	**Course Code**	202
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	Credit 3
5	**Educational hours**	Four hours A week
6	**Pre-requisite requirements**	Physics, chemistry, mathematics, biology.
7	**Program offered the course**	B.D.S program
	Instruction Language	English
9	**Date of course approval**	2021- 2022
Brief Description	1. This course perfectly presents the meaning of removable prosthodontics. 2. This course presents the basic information, which is necessary for understanding the laboratory procedures and techniques involved in the construction of complete denture and different types of removable partial denture. 3. Textbook of Complete Dentures. Rahn AO, Heartwell CM, 5th edition, 1992.	

Textbooks required for this Course	4. Textbook of Complete Dentures. Rahn AO, Heartwell CM, 5th edition, 1992. 5. Dental Laboratory Procedures, Vol. 1 (Complete Dentures), Rudd and Morrow, 2nd Edition, 1986, The C.V. Mosby Co., St. Loius. 6. McCracken's Removable Prosthodontics, 10th Edition 2000 by McGivney GP, Carr AB. The C.V. Mosby Co., St. Loius. 7. Phoenix, Rodney D.; Cagna, David R.; and DeFreest, Charles F., Stewart's Clinical Removable Partial Prosthodontics, 3rd ed. 8. Dental Laboratory Procedures (Removable Partial Dentures) Morrow, Rudd, Eissman, Vol. III 2nd Edition, 1986. The C.V. Mosby Co., St. Loius.
Course Duration	Four hours a week
Delivery	➢ Lectures –illustrated with cases, photos, and diagrams. ➢ Practical sessions (direct contact between the students and their demonstrators and staff members). ➢ Lecture notes ➢ Demonstration CDs. ➢ Stone models with wax record blocks and articulators for preparation for teeth setting
Course Objectives	• At the completion of the course, students should be able to: • Define what is meant by complete and partial dentures and recognizes the indications and contraindications of complete and partial denture. • Describe the anatomy that directly affects the construction of CDs and RPD.
	• Describe the factors affecting stability and retention of CDs. • Describe a system of classifying RPDS and partially edentulous arches, problems of RPD, various component parts of an RPD, their function .and the factors, which dictate their use. • Demonstrate the ability to describe the laboratory steps for construction of special trays, record blocks and teeth setting of complete dentures. • Describe the dental surveyors and its uses. • Describes all laboratory steps for processing of complete and partial denture and laboratory remounting.
Course Assessments	• Midterm assessment. • Final exam (written- oral- practical exam)
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction to Complete Denture Prosthodontics and Terminologies
Session 2 (Week 2)	Anatomical Landmarks of Edentulous Foundations.

Session 3 (Week 3)	Preliminary Impressions.
Session 4 (Week 4)	Custom Trays, (Special trays)
Session 5 (Week 5)	Secondary (Final) Impression:
Session 6 (Week 6)	Temporary Record Bases and Occlusion Rims:
Session 7 (Week 7)	Mandibular Movements.
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Articulators and Facebow.
Session 10 (W-10)	Transfer of Jaw Relation Record.
Session 11 (W-11)	Occlusion: Balanced Occlusion.
Session 12 (W-12)	Selection and Arrangement of Teeth.
Session 13 (W-13)	Reproducing Tissue Morphology, Wax-Contouring. (festooning)
Session 14 (W-14)	Flacking, Packing, and Processing of Dentures
Session 15 (W-15)	Dimensional Changes due to Processing, Laboratory Remounting
Session 16 (W-16)	Recovery of Dentures, Finishing of The Contours of Dentures and Polishing of Dentures, Processing Errors
Session 17 (W-17)	Introduction To Removable Partial Prosthodontics and Terminology
Session 18 (W-18)	Dental Cast Surveyor
Session 19 (-19)	Components Parts of Removable Partial Dentures
Session 20 (W-20)	Direct Retainers; Parts /Function /Types
Session 21 (W-21)	Major and minor connector
Session 22 (W-22)	Indirect Retainers /Stress Breakers
Session 23 (W-23)	Block out, Duplicating Master Casts/Refractory Casts
Session 24 (W-24)	Waxing – Up and Spring Procedures
Session 25 (W-25)	Investing; Burn-Out and Casting Procedures
Session 26 (W-26)	Recovery Of Metal Frameworks, Finishing and Polishing
Session 27 (W-27)	Attachment Of Artificial Teeth To Metallic Bases
Session 28 (Week 28)	Flasking, Packing Procedures, And Recovery, Polishing Of RPD
Session 29 (Week 29)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, Collaborate properly with each other, with colleagues in teamwork and with patients.

Brief Description	This course will provide students with a fundamental understanding of the normal anatomical, physiological, and biomechanical relationships of dental structure, and to recognize the clinical significance of the shape and contour of the normal dentition and occlusion. Also, it will provide student with knowledge of chronologies of human dentition and function of primary and permanent dentition.
Textbooks required for this Course	Wheeler's dental anatomy, physiology and occlusion 10th edition Lecture presentation and notes
Course Duration	48 hrs.
Delivery	Lecture-based, Group interaction and discussion and practical works.
Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: • Explain with dental terms the morphology and functions of primary and permanent dentition. • Define the normal occlusion of the teeth and identify the various types of occlusions according to its classification. • Know the chronologies of the primary and permanent dentitions. • List the differences between the primary and permanent dentitions. • Recognize the shape and size of the pulp chambers and the number of root canals of the permanent dentition. • Utilize the various system of nomenclature of primary and permanent dentition in clinic. • Compare and contrast form and function of teeth in relation to the important physiologic factors of alignment, contact, and occlusion. • Differentiate between the morphological characteristics of all permanent and deciduous teeth. • Recognize the basic line of development and normal centric occlusion • Organize for teeth preparation and restoration as well as for prosthodontic treatment. • Reproduce in drawing and carving of wax the accurate morphology of the permanent dentition. • Utilize accurate dental terminology of the teeth and oral tissues. • Differentiate between the normal occlusion and malocclusion. • Communicate efficiently with colleagues, and supervisors. • Acquisition of information in scientific manner and building the ability of work in groups.
Course Assessments	Half Exam: 30% Final Exam: 70% Final (Written Exam: 40% - Practical Exam: 20% - objective Exam: 10%)A 60% is required for a pass in this course. Homework & Practical work Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course, also to attend the practical sessions.

Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction • Nomenclature of deciduous and permanent teeth • The anatomy of the crown and root • The anatomical landmarks
Session 2 (Week 2)	Introduction • Division into thirds, line angles and point angles • Methods of measuring teeth • Teeth numbering system • Chronologies of human dentition
Session 3 (Week 3)	Maxillary central incisor • Detailed description of the labial aspect of maxillary central incisor • Detailed description of the palatal aspect of maxillary central incisor • Detailed description of the mesial aspect of maxillary central incisor • Detailed description of the distal aspect of maxillary central incisor • Detailed description of the incisal aspect of maxillary central incisor
Session 4 (Week 4)	Maxillary lateral incisor • Detailed description of the labial aspect of maxillary lateral incisor • Detailed description of the palatal aspect of maxillary lateral incisor • Detailed description of the mesial aspect of maxillary lateral incisor • Detailed description of the distal aspect of maxillary lateral incisor • Detailed description of the incisal aspect of maxillary lateral incisor
Session 5 (Week 5)	Mandibular central and lateral incisor • Detailed description of the labial aspect of mandibular central incisor • Detailed description of the palatal aspect of mandibular central incisor • Detailed description of the mesial aspect of mandibular central incisor • Detailed description of the distal aspect of mandibular central incisor • Detailed description of the incisal aspect of mandibular central incisor • Detailed description of the labial aspect of mandibular lateral incisor • Detailed description of the palatal aspect of mandibular lateral incisor • Detailed description of the mesial aspect of mandibular lateral incisor • Detailed description of the distal aspect of mandibular lateral incisor • Detailed description of the incisal aspect of mandibular lateral incisor
Session 6 (Week 6)	Maxillary and mandibular canine • Detailed description of the labial aspect of maxillary canine • Detailed description of the palatal aspect of maxillary canine • Detailed description of the mesial aspect of maxillary canine • Detailed description of the distal aspect of maxillary canine • Detailed description of the incisal aspect of maxillary canine • Detailed description of the labial aspect of mandibular canine • Detailed description of the lingual aspect of mandibular canine • Detailed description of the mesial aspect of mandibular canine



	• Detailed description of the distal aspect of mandibular canine • Detailed description of the incisal aspect of mandibular canine
Session 7 (Week 7)	Maxillary first premolar • Detailed description of the labial aspect of maxillary first premolar • Detailed description of the palatal aspect of maxillary first premolar • Detailed description of the mesial aspect of maxillary first premolar • Detailed description of the distal aspect of maxillary first premolar • Detailed description of the occlusal aspect of maxillary first premolar
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Maxillary second premolar • Detailed description t of the buccal aspect of maxillary second premolar • Detailed description of the palatal aspect of maxillary second premolar • Detailed description of the mesial aspect of maxillary second premolar • Detailed description of the distal aspect of maxillary second premolar • Detailed description of the occlusal aspect of maxillary second premolar
Session 10 (Week 10)	Mandibular first and second premolar • Detailed description of the labial aspect of mandibular first premolar • Detailed description of the palatal aspect of mandibular first premolar • Detailed description of the mesial aspect of mandibular first premolar • Detailed description of the distal aspect of mandibular first premolar • Detailed description of the occlusal aspect of mandibular first premolar • Detailed description of the labial aspect of mandibular second premolar • Detailed description of the lingual aspect of mandibular second premolar • Detailed description of the mesial aspect of mandibular second premolar • Detailed description of the distal aspect of mandibular second premolar • Detailed description of the occlusal aspect of mandibular second premolar
Session 11 (Week 11)	Maxillary first molar • Detailed description of the buccal aspect of maxillary first molar • Detailed description of the palatal aspect of maxillary first molar • Detailed description of the mesial aspect of maxillary first molar • Detailed description of the distal aspect of maxillary first molar • Detailed description of the occlusal aspect of maxillary first molar
Session 12 (Week 12)	Maxillary second and third molar • Detailed description of the buccal and palatal aspect of maxillary second molar • Detailed description of the mesial and distal aspect of maxillary second molar

	• Detailed description of the occlusal aspect of maxillary second molar • Detailed description of the buccal and palatal aspect of maxillary third molar • Detailed description of the mesial and distal aspect of maxillary third molar • Detailed description of the occlusal aspect of maxillary third molar
Session 13 (Week 13)	Mandibular first premolar • Detailed description of the buccal aspect of mandibular first molar • Detailed description of the lingual aspect of mandibular first molar • Detailed description of the mesial aspect of mandibular first molar • Detailed description of the distal aspect of mandibular first molar • Detailed description of the occlusal aspect of mandibular first molar
Session 14 (Week 14)	Mandibular second and third molar • Detailed description of the buccal and palatal aspect of mandibular second molar • Detailed description of the mesial and distal aspect of mandibular second molar • Detailed description of the occlusal aspect of mandibular second molar • Detailed description of the buccal and palatal aspect of mandibular third molar • 10 • Detailed description of the mesial and distal aspect of mandibular third molar • Detailed description of the occlusal aspect of mandibular third molar
Session 15 (Week 15)	Anatomy of the pulp cavity • Pulp cavities of maxillary and mandibular teeth
Session 16 (Week 16)	The primary teeth • Differences between primary and permanent teeth • Brief description of maxillary deciduous teeth • Brief description of mandibular deciduous teeth • Brief description of mandibular deciduous teeth
Session 17 (Week 17)	Crown form and periodontium • Geometrical concept of crown form • Direct factors affecting periodontium • Inter proximal spaces • Proximal contact point • Embrasure
Session 18 (Week 18)	Crown form and periodontium • Indirect factors affecting periodontium • Facial and lingual contour • Curvature of cervical line • Crown form

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	• Root form • Angulations of the teeth Embrasure
Session 19 (Week 19)	The occlusion • Concept of occlusion • Development of occlusion of primary and permanent dentition • Dental arch form • Compensating curvature of the dental arch • Alignments of teeth in relation to each other • Occlusal contact and intercostal relations of all teeth in centric occlusion • Mandibular movement • Masticatory cycle
Session 20 (Week 20)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supportedwith a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric,computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

General Histology

1	**Course name**	**General Histology**
2	**Course Code**	**106**
3	**Course type: /general/specialty/optional**	
4	**Accredited units**	
5	**Educational hours**	
6	**Pre-requisite requirements**	
7	**Program offered the course**	

8	**Instruction Language**	
9	**Date of course approval**	

Brief Description	General Histology is a required, lecture-based course for first year students. The course consists of lectures and teaching laboratories which cover the microscopic anatomy of the human body from cell biology to histology at the light and electron microscopic level. Histology topics are correlated with their concurrent study of human embryology, human gross anatomy and human physiology. Teaching laboratories follow each of the major lectures and consist of staff-supervised sessions utilizing a set of digitized color images of normal tissue specimens. Students are able to explore the tissue specimen as they would utilize a traditional light microscope and glass specimen slides. Medical Histology is designed to develop in students a solid foundation of knowledge ofnormal microscopic structure and function in preparation for their subsequent study of abnormal structure and function related to human disease during the third year of the medical curriculum.
Course Prerequisites	None
Textbooks requiredfor this Course	1. Young, O'Dowd & Woodford (2014): Wheater's Functional Histology text and color Atlas 6th edition. 2. Vasudeva & Mishra (2014): Textbook of Human Histology with color atlas and Practical guide, 7th edition. 3. Mescher (2013): Junqueira's Basic Histology text and atlas, 13th edition. Essential Cell Biology, 3rd edition. 4. Eroschenko (2008): DiFiore's Atlas of Histology with Functional Correlations 11th edition. 5. Kuehnel (2003): Color textbook of Histology, 3rd edition. 6. Krause (2005): Essential Human Histology, 3rd edition.
Course Duration	**Lectures /week (One Lec.= 3Hrs.)** ;one hour each according to the current timetable **Practical /week (One Pract.= 6Hrs)** 4 hours-practical class once perweek and 2 hour tutorial per week. Duration/week **(9) Hrs.** **Total Credit hours= 135 Hrs for 15 weeks**
Delivery	Lecture-based, interaction and discussion in lectures, self-directed activities, active participation, Laboratory experiments.



Course Objectives	Upon completion of this course, the student will have reliably demonstratedthe ability to: • Understand histological characteristic of normal cells. • Correlate the histological structure of different tissue and organs with their function. • Describe and compare between different blood cells. • Recognize different between normal and abnormal tissues. • Describe the normal histological structures of various organs in different systems, Cardiovascular system, Lymphatic Tissue& Immune system, Oral cavity, Tooth and Associated Structures, Stages in Tooth Development. & Associated salivary glands, Endocrine, and Sense organs. • Identify different types of tissue in histological slides seen under the microscope.
Assessment	Written and MCQ Exam: 20 marks
	Practical Notebook 5 marks
	Total 25 marks
	Final Exam. MCQ Exam. :45 marks
	Practical Exam.: 20 marks
	Oral Exam.:10 marks
	Total 75 marks
	Reset Exam. MCQ Exam :70 marks
	Practical Exam.20 marks
	Oral Exam.:10 marks
	Total: 100 marks
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Topics to be covered in the session (week) • Introduction to Histology 1. The Word Histology. 2. Body Composition. • Cytology **Cell components**: 1. Plasma Membrane and Cell Coat. 2. Cytoplasm. 3. Membranous Organelles: a. Mitochondria. b. Endoplasmic reticulum. c. Gologicomplex. d. Lysosomes. e. Perioxisomes or microbodies

Session 2 (Week 2)	Topics to be covered in the session (week) **4. Non-membranous Organelles**: a. Ribosomes. b. Centrioles. c. Cilia. d. Flagella. **5. Cell Inclusion** a. Glycogen. b. Lipids. c. Pigments. d. Crystals. **6. Cytoskeleton:** a. Microtubules. b. Thin filaments. c. Intermediate filaments. d. Neurofilaments. **7. Nucleus:** a. Nuclear envelope b. Nuclear pores. c. Nucleoplasm. d. Nucleolus. e. Chromatin.
	f. Classification of chromosomes. g. Structure of chromosomes. **8. Cell Division.** **9. Cell Cycle.**
Session 3 (Week 3)	Topics to be covered in the session (week) **Epithelial Tissue** **1.** The Forms and Characteristics of Epithelial Cells. **2.** Basal Lamina and Basement Membrane. **3.** Intercellular Junction. **4.** Lateral and Basolateral Specialization. **5.** Specialization of the Cell Surface: a. Microvilli. b. Sterocilia. c. Cilia and flagella. **6.** Types of Epithelia: I. Covering epithelia a. Simple Epithelium. b. Stratified Epithelium II. Glandular epithelia. III. Types of Glandular Epithelia: a. Simple gland. b. Compound gland.

Session 4 (Week 4)	Topics to be covered in the session (week) **Connective Tissue** 1. Extracellular Matrix: • **Ground substance.** a. Proteoglycans. b. Multiadhesive glycoproteins. • **Fibers:** a. Collagen fibers. b. Elastic fibers. c. Reticular fibers. • **Cellular components:** a. Fibroblasts. b. Macrophages. c. Mast cells. d. Plasma cells. e. Adipose cells. f. Leukocytes. g. Macrophages and the mononuclear phagocyte system. **2. Classification of Connective Tissue:** **I.** Embryonic connective tissue a. Mesenchymal connective tissue.
	b. Mucous connective tissue. **II.** Connective tissue proper a. Loose (areolar) connective tissue. b. Dense connective tissue. c. Reticular tissue. d. Adipose tissue. 3. **General Function of Connective tissue**
Session 5 (Week 5)	Topics to be covered in the session (week) **Cartilage** **1.** Types of Cartilage: a. Hyaline Cartilage. b. Elastic Cartilage. c. Fibrocartilage. **2.** Cartilage Cells. a. ChondrogenicCells. b. Chondroblasts. c. Chondrocytes. **3.** Perichondrium. **4.** Cartilage Matrix. **5.** Sites and General Functions. **6.** Histogenesis. **7.** Growth.

Session 6 (Week 6)	Topics to be covered in the session (week) **Bone** **1.** Bone Matrix. **2.** Bone Cells: **a.** Osteoblasts. **b.** Osteocytes. **c.** Osteoclasts. **3.** Periosteum and Endosteum. **4.** Bone Structure. **5.** Types of Bone with Reference to sites. **6.** Histogenesis of Bone.
Session 7 (Week 7)	Topics to be covered in the session (week) **Blood and Hemopoiesis** • Composition of Plasma. • Light Microscopic Examination of Circulating Blood Cells. • Formed Elements: • Erythrocytes. • Leukocytes: • Granulocytes: • Neutrophils.
	• Eosinophils. • Basophils • Monocytes. • A granulocytes: • Monocytes • Lymphocytes. • Platelets. • Function of erythrocytes. • Function of leukocytes. • Function of lymphocytes. • Bone Marrow: • Red bone marrow. • Yellow bone marrow. • Hemopoiesis.
Session 8 (Week 8)	Midterm Exam

Session 9 (Week 9)	Topics to be covered in the session (week) **Muscle Tissue** **1.** Organization of Skeletal Muscle: a. Organization of skeletal muscle fibers. b. Sarcoplasmic reticulum and transverse tubule system. c. Motor Endplate. **2.** Cardiac Muscle. **3.** Smooth Muscle. **4.** The myoneural junctions.
Session 10 (Week 10)	Topics to be covered in the session (week) **Nervous Tissue** **1.** Development of Nerve Tissue. **2.** Neurons. **3.** Membrane Potentials. **4.** Synaptic Communication. **5.** Glial Cells and Neuronal Activity. a. Oligodendrocytes. b. Schwann cells. c. Astrocytes. d. Ependymal cells. e. Microglia. 6. Nerve Fibers. a. Myelinated fibers. b. Unmyelinated fibers. 7. Nerves. 8. Ganglia.
Session 11 (Week 11)	Topics to be covered in the session (week) **Circulatory System** **1.** General Structures of Blood Vessel: **2.** Classification of Arteries. **3.** General Structures of Capillaries. **4.** Classification of Capillaries. **5.** Regulation of Blood Flow into aCapillary Bed. **6.** Histophysiology of Capillaries. **7.** Classification of Veins. **8.** Layers of the Heart Wall. **9.** Cardiac skeleton. **10.** Lymphatic Capillaries and Vessels. **11.** Lymphatic Ducts.

Session 12 (week 12)	Topics to be covered in the session (week) **Immune System and Lymphatic Tissue** **1.** The Overview of the Immune System. **2.** Basic Types of Immune Reactions. **3.** Immunogens and Antigens. **4.** Antibodies (Types and Function). **5.** B and T lymphocytes. **6.** Antigen-Presenting Cells. **7.** Lymphoid Organs: a. Thymus b. Lymph node c. Spleen d. Mucosa-Associated lymphoid Tissue e. Tonsils
Session 13 (week 13)	Topics to be covered in the session (week) **The oral cavity and associated salivary glands** **I. Oral cavity.** **1.** Lining mucosa. **2.** Masticatory mucosa. **3.** Specialized mucosa. **4.** Lips. **5.** Tongue. **6.** Gums **7.** Hard palate and Soft palate. **8.** Pharynx.
Session14 (week 14)	Topics to be covered in the session (week) **9.** Tooth and Associated Structures. **10.** Stages in Tooth Development. **II. Glands Associated with oral cavity**

Session 15(week 15)	Topics to be covered in the session (week) **Endocrine System** **1.** Pituitary gland. a. Adenohypophys ,Cells , hormones and their actions. b. Neurohypophysis, Cells, hormones and their actions. **2.** Thyroid Gland a. Thyroid follicle. b. Colloid. c. Thyroid cells. **3.** Parathyroid Gland a. The chief cell. b. Oxyphil cells. **4.** Adrenal gland a. Adrenal cortex. b. Cortical hormones and their actions. c. Adrenal medulla, hormones and their actions. **5.** Endocrine Portion of Pancreas (Islets of Langerhans) **6.** Cell types in human islets of Langerhans. **7.** Pineal gland a. Pinealocytes. b. Astrocytes.
Session 16 (week 16)	Topics to be covered in the session (week) Special Senses 1. Specialized peripheral receptors. a. Mechanoreceptors. b. Thermoreceptors. 2. The Photoreceptor System I. Eye: a. External layer, or Tunica Fibrosa: • Sclera. • Cornea. • Limbus. b. Middle layer or Vascular. • Choroid. • Ciliary body. • Iris. c. Innermost coat, a Neural Tunica. • Retina. d. Lens. e. Vitreous body. f. Eyelids. g. Lacrimal apparatus. h. Conjunctiva. II. Ear:

	a. External ear: • The auricle. • The external auditory meatus. • The tympanic membrane. b. Middle ear: • The malleus. • The incus. • The stapes. c. Inner ear: • Bony labyrinth. • Membranous labyrinth. • Saccule and Utricle. • Semicircular ducts. • Cochlear duct and organ of corti.
Session 17 (Week 17)	**Final Exam**
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported witha doctor's note.
Dress Expectations	Students are expected to dress appropriately and must be in accordance with the faculty's dress code policy.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Dental material

1	**Course name**	Dental material
2	**Course Code**	102
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	Credit hours 3 for 1 week
5	**Educational hours**	Four hours A week
6	**Pre-requisite requirements**	Physics, chemistry, mathematics, biology.
7	**Program offered the course**	B.D.S program

8	**Instruction Language**	English
9	**Date of course approval**	2021- 2022

Brief Description:	The Course provides a thorough understanding of the metallic, non- metallic materials, used in dentistry, the methods to manipulate them, their influences of physical and chemical properties when used clinically and in the laboratory. Emphasis is given on structure, states of matter, and the physical and mechanical properties of the materials.
Textbooks	Phillips 'Science of Dental Materials, by Anusavice. Craig's Restorative Dental Materials, by Power, and Sakaguchi (reference book), Twelfth or the latest Ed.
Course Duration	Four hours a week
Delivery	Topics 19, Hours 53 Spread over a period of ONE Academic year. Each lecture will highlight the important and recent development of the concerned topic. PRACTICAL 15, Hours 30 Spread over a period of ONE academic year. This involves teaching the students how to identify, and to know the methods of manipulation. TUTORIALS Tutorials are held in small groups in order to facilitate better understanding of the subject. These may conduct as part of practical hours.
Course Objectives:	At the end of the course the student is expected to be able to: 1. Develop an understanding of properties of dental materials in general. 2. Understand composition, role of ingredients', mode of supply, manipulation, manipulative variables, uses and effects of each material. 3. To analyze materials and to be able to select a material for a particular use.
Course Assessments	Internal Assessment Marks total out of [30] marks They are subdivided into: Written Assessment Exam:30 marks Final Examination Final Written Examination out of 50 marks Final Oral Examination out of 20 marks Thus, the evaluation of student will be out of TOTAL [100 MARKS]
	3. Reset Examination Reset Written Examination out of70 marks Reset Oral Examination out of 30 marks
Content Break down Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction to the science of dental materials; Historical background. Standard Specifications, ADA, International Standards, FDI, ISO. Aims, objective and scope of the course. References and supporting materials

Session 2 (Week 2)	Classification of Dental Materials, Biological properties of dental materials, Mechanical properties of dental materials, stress; definition types, strain, Elastic limit, Elasticity, Stress-Strain curve, Proportional limit, Strength, Yield strength Ultimate strength, Modulus of Elasticity, Resilience, Flexibility, Impact strength, Toughness, Brittleness, Hardness, Hardness Tests, Ductility, Malleability, Fatigue strength, Creep, Flow, Rheology, Viscosity, adhesion, cohesion, wetting, Tarnish and corrosion, types of corrosions, Color and color perception, Three dimensions of color, Metamerism and fluorescence.
Session 3 (Week 3)	Gypsum products: Sources /Classification, physical characteristics, Setting reaction /Setting time/ Setting expansion/ Strength W/P ratio, Technical considerations, /Properties and Manipulations .of dental plaster, dental stone, and improved stone.
Session 4 (Week 4)	Impression Materials: Impression definition, impression trays, Ideal requirements of impression materials, Classification of imp. Materials, Impression Compound: composition, types, properties, manipulation, applications. Zinc oxide &eugenol impression pastes: composition, setting reaction, manipulation, controlling setting time, advantages, disadvantages applications, Impression plaster: Composition and properties
Session 5 (Week 5)	Hydrocolloid impression materials: Colloid system, types of hydrocolloids, reversible hydrocolloid (agar-agar) composition manipulation, properties, applications, Syneresis and imbibitions. Irreversible Hydrocolloid Impression Materials (Alginate), composition, setting reaction, manipulation, advantages, disadvantages applications, recent developments.
Session 6 (Week 6)	Elastomeric impression materials: Introduction to polymers and polymerization, types of polymers, cross-linking, polysulfides, condensation silicones, addition silicones polyethers: composition, presentations, setting reactions, viscosities, Manipulation of different types of elastomers, properties, wettability, applications and

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	disinfection of elastomers.
Session 7 (Week 7)	Waxes: Nature of wax, sources, properties, manipulative precautions, classification of dental waxes, presentation and various uses in dentistry.
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Denture base materials: Desirable properties of denture base materials, Classification, Composition of acrylic resin ,Polymerization types of Polymers, Copolymers and Thermoplastic materials, Properties, Manipulation, Packing and Processing of acrylic resins, Porosities, Self-curing acrylic resin, Light-curing denture base resins.
Session 10 (Week 10)	Model, Cast and Die materials: Type, Requirements, Electro-plating, Epoxy resin; composition and properties.
Session 11 (Week 11)	Casting investment Materials: Introduction, Classification, and Ideal properties of casting investment materials, Composition, uses, setting reactions, properties and expansions of Gypsum-bonded, Phosphate- boned and Silica-bonded investment materials.
Session 12 (Week 12)	Metal and alloys: Cast alloys, wrought alloys, Noble Metals, Casting Gold Alloys: composition and types, Classification of Dental Casting Alloys, Metal-Ceramic Alloys, Types, Physical properties of some modern noble alloys, Nickel chromium, Titanium alloys, Cobalt chromium and Stainless steel alloys types, application and properties
Session 13 (Week 13)	Abrasives & Polishing materials: Definitions, comparison between abrasion and polishing, purpose of polishing, desirable qualities of an abrasive agent, presentation of various abrasive and polishing agents, electrolytic polishing. Dentifrices; function and composition, Rule of fluoride and reaction of fluoride with enamel.
Session 14 (Week 14)	Temporary Crowns and Bridges Materials: Functions, requirements, types and properties of different temporary crown & bridges materials.
Session 15 (Week 15)	Dental Porcelains: Classification, Composition, Fabrication of a ceramic restoration, condensation and firing, Metal-ceramic restorations, Porcelain denture teeth, Properties of Porcelain, Castable glass-ceramics, Recent developments of dental porcelains, CAD CAM,
Session 16 (Week 16)	Restorative Dental Materials: Introduction Requirements of restorative dental materials, classification and biological considerations of different types of restorative dental materials.
Session 17 (Week 17)	Dental Amalgam: Understanding the definition and uses of dental amalgam, composition, particle shapes and classification, setting reactions of various amalgams, handling manipulations and properties of amalgam, delayed expansion, creep, tarnish and corrosion and mechanical properties of dental amalgam, potential mercury hazards from amalgam.

Session 18 (Week 18)	Composite Resins Materials: Aesthetic restorative materials, definition, indications, composition of composite resins, chemical activation, light activations of composite resins polymerization shrinkage, Classification and properties of different types of resin-based composite, Manipulation of composite resins, Acid-etching and bonding procedures, Dentine bonding agents, Recent developments, Nano composites.
Session 19 (Week 19)	Dental Cements: Uses, Requirements and Classification of different types of dental cements. -Zinc oxide & eugenol cements: Types, composition, properties and applications. -Zinc phosphate cement: Composition, applications, setting reaction, manipulation and controlling working and setting time properties and biocompatibility. -Zinc polycarboxylate cement: Composition, applications, manipulation and properties. -Glass-ionomer cements: Composition, setting reaction, Types, properties, Compomer. -Resin cements. -Calcium hydroxide cements, cavity liners and Cavity varnishes -Gutta purcha- Composition and applications.
Session 20 (Week 20)	**Final exam**
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Oral and maxillofacial surgery

1	**Course name**	Oral and maxillofacial surgery
2	**Course Code**	401

3	**Course type: /general/specialty/optional**	speciality
5	**Educational hours**	75 hours
8	**Instruction Language**	English

Brief Description:	Basic Oral Surgery Aims To provide an integrated introductory approach to basic Oral Surgery within the Specialty of Oral and Maxillofacial Surgery. To ensure that students understand how the subjects within the Teaching Divisions inter-relate and to provide a broad basis of clinical exposure.
Textbooks required for this Course:	Contemporary textbook of oral and maxillofacial surgery
Course Duration	75 hours
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation in oral surgery clinic
Course Objectives:	➢ To provide first contact with patient care initially on an observer/assistant basis, hands on treatment is introduced as appropriate. ➢ To provide teaching on the recording of histories and clinical examinations. ➢ To provide clinical exposure which instructs the students in the management of patients, the basic principles of surgery and the importance of carrying out treatment under aseptic conditions with minimal trauma.
Course Assessments	1st assessment 30 marks 2nd assessment 30 marks
Session 1 (month 1)	Introduction to oral and maxillofacial surgery Patient assessment Neural pathways Local anesthesia
Session 2 (month 2)	Exodontia Principles of oral surgery Management of medically compromised patients Pharmacology in oral surgery
Session 3 (month 3)	Management of medically compromised patients Pharmacology in oral surgery
Session 4 (month 4)	Management of impacted teeth General anesthesia and sedation 1st Assessment
Session 5 (month 5)	Infections of maxillofacial region

	Endodontic surgery Replantation and transplantation of teeth Cysts of maxillofacial region
Session 6 (month 6)	Maxillofacial trauma Maxillary sinus diseases Salivary gland diseases Preprosthetic surgery 2nd assessment
Session 7 (month 7)	Premalignant and malignant Neoplasma of maxillofacial region
Session 8 (month 8)	Trigeminal neuropathy Temporomandibular joint diseases Advances in oral surgery
Final Exam	
Attendance Expectations	Students are expected to attend every session of class, arriving on time, 25 25% of absence doesn't allow for final exam
Generic Skills	At the end of this course - the student should be able to: ➢ Undertake and record a clear and concise history of the presenting complaint. ➢ Record a medical, dental and social history. ➢ Undertake and record a detailed oro-facial examination. ➢ Display knowledge of special investigative techniques, relevant to the practice of Oral Surgery. ➢ Manage patients with confidence and understanding. ➢ Undertake simple exodontia under LA and demonstrate an understanding of the indications, contra-indications and possible sequelae relating to minor surgical techniques. ➢ Recognize emergency situations in the dental chair and display competence in managing such events.
Course Change	

Periodontology 4th year

1	**Course name**	Periodontology 4th year
2	**Course Code**	405
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	3 units
5	**Educational hours**	4 hour per week
6	**Pre-requisite requirements**	N/A
7	**Program offered the course**	N/A
8	**Instruction Language**	English
9	**Date of course approval**	2015/2016

Brief Description:	This course will provide students with a fundamental understanding of the identify the correlation between periodontium and systemic diseases and factors, to integrate the basic information with necessary clinical skills to evaluate and diagnose all recognized forms of periodontal diseases and introducing to surgical periodontal procedures that is facilitated by observing and assisting as procedures are being performed.
Textbooks required for this Course:	1. Handout sheets: According to the lecture. 2.Carranza's clinical periodontology, 11th edition. 3.Clinical periodontology and implantology 4 th edition.
Course Duration	92 hours Including 62 hours theoretical lectures and 30 hours clinical sessions
Delivery	Lecture-based, Group interaction and discussion, clinical examination.

Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: • Identify types of periodontal diseases. • Determine prognosis for various types of periodontal diseases • Outline the sequential professional treatment plan • Assess the rationale of periodontal treatment. • Perform complete periodontal charting. • Inform patients with oral hygiene instruction. • Perform thorough scaling and root planning procedures and correct predisposing factors to the accumulation of calculus and dental deposits. • Determine if there is an occlusal factor contributing to the clinical manifestation of the periodontal disease and the most appropriate method of treatment. • Carry out other treatment as appropriate including the use of surgical techniques by assisting staff members during the various surgical procedures required for their patients. • Students should be aware of their own limitations in the treatment of complex cases but rising to their highest level of competence. • Evaluate the results of periodontal treatment for patients in short term as well as patients on a maintenance program. • Carry out appropriate treatment for special category patients whose medical conditions or handicap may pose particular problems. • Identify patients who should be referred to a periodontist. • Use manual instruments in professional way. • Manage patients under infection control measures. • Educate and motivate patients about the cause of periodontal diseases. • Record the changes in gingival and periodontal status during the course of treatment. • Follow up the patients after completion of periodontal treatment • Communicate with other students in order to work together. • Educate and motivate patients about the cause of periodontal diseases. • Manage patients with infectious diseases.
	• Communicate with colleagues and public. • Educate and motivate patients about the cause of periodontal diseases.
Course Assessments	Assignment 1: 15% Assignment 2: 15% Final Exam: 70% A 60 % is required for a pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course. Instructors are encouraged to use and design any assignment that may be beneficial to the student-learning outcome.

Content Breakdown Topical Coverage	• The periodontal pocket. • Classification of diseases and conditions affecting the periodontium. • Immunity and inflammation: basic concepts. • Microbial interaction with the host in periodontal diseases. • Chronic periodontitis • Necrotizing ulcerative periodontitis. • Aggressive periodontitis. • Bone loss and patterns of bone destruction • Periodontal response to external forces. • Diagnosis. • Radiographic aids used in diagnosis of periodontal diseases. • Advanced diagnostic techniques. • Determination of prognosis. • Treatment plan. • Periodontal abscess. • Chemotherapeutic and host modulation agents. • Sonic and ultrasonic instrumentations. • The period ontic-endodontic continuum. • General principles of periodontal surgery • Gingival Curettage. • Treatment of gingival enlargement. • The periodontal flap • The flap technique for pocket therapy. • Reconstructive Periodontal Surgery • Furcation: Involvement and Treatment • Periodontal Plastic and Esthetic Surgery • Periodontal- restorative interrelationship • Oral implantology • Periodontal maintenance.
Session 1 (month1)	Topics to be covered in the session (month) **The periodontal status** • Classification and clinical Features • Pathogenesis and histopathology • Pulp Changes Associated with Periodontal Pockets • Relationship of Attachment Loss and Bone Loss to Pocket Depth

	• Relationship of Pocket to Bone. **Classification of diseases and conditions affecting the periodontium.** • Gingival Diseases ○ Dental Plaque-Induced Gingival Diseases ○ Non-Plaque-Induced Gingival Lesions • Periodontitis ○ Chronic Periodontitis ○ Aggressive Periodontitis ○ Periodontitis as a Manifestation of Systemic Diseases ○ Necrotizing Periodontal Diseases ○ Necrotizing Ulcerative Gingivitis ○ Necrotizing Ulcerative Periodontitis ○ Abscesses of the Periodontium ○ Periodontitis Associated with Endodontic Lesions. **Immunity and inflammation: basic concepts.** • Histopathology of Periodontal Disease • Inflammatory Responses in the • Periodontium • Linking Pathogenesis to Clinical • Signs of Disease • Resolution of Inflammation • Immune Responses in Periodontal • Pathogenesis • Concept of Host Susceptibility. **Microbial interaction with the host in periodontal diseases.** • Innate Immunity in Periodontal Diseases • Adaptive Immunity in Periodontal Diseases • Pathobiology of Periodontal Disease Progression • Therapeutic Strategies for Disrupting Host-Cell Signaling in the Treatment of Periodontal Diseases
Session 2 (month 2)	Topics to be covered in the session (month) **Chronic periodontitis** • Clinical Features • General Characteristics • Disease Distribution • Disease Severity, Symptoms, Disease Progression • Prevalence, Risk Factors for Disease • Local Factors • Systemic Factors • Environmental and Behavioral Factors • Genetic Factors. **Necrotizing ulcerative periodontitis.** • Clinical Features • Microscopic Findings • Patient with HIV/Acquired immunodeficiency Syndrome • Etiology of Necrotizing Ulcerative Periodontitis

	Aggressive periodontitis. • Localized Aggressive Periodontitis ○ Clinical Characteristics ○ Radiographic Findings ○ Prevalence and Distribution by Age and Gender • Generalized Aggressive Periodontitis ○ Clinical Characteristics ○ Radiographic Findings ○ Prevalence and Distribution by Age and Gender • Risk Factors for Aggressive Periodontitis ○ Microbiologic Factors ○ Immunologic Factors ○ Genetic Factors ○ Environmental Factors • Treatment of Aggressive Periodontitis **Bone loss and patterns of bone destruction** • Bone Destruction Caused by the Extension of Gingival Inflammation • Bone Destruction Caused by Trauma from Occlusion • Bone Destruction Caused by Systemic Disorders. • Factors Determining Bone Morphology in Periodontal disease • Bone Destruction Patterns in Periodontal disease
Session 3 (month 3)	Topics to be covered in the session (month) **Bone loss and patterns of bone destruction** • Bone Destruction Caused by the Extension of Gingival Inflammation • Bone Destruction Caused by Trauma from Occlusion • Bone Destruction Caused by Systemic Disorders • Factors Determining Bone Morphology in Periodontal disease • Bone Destruction Patterns in Periodontal disease **Periodontal response to external forces.** • Adaptive Capacity of the Periodontium to Occlusal Forces • Types of Traumata from Occlusion • Effects of Insufficient Occlusal Force • Reversibility of Traumatic Lesions • Influence of Trauma from Occlusion on Progression of Marginal Periodontitis • Clinical and Radiographic Signs of Trauma from Occlusion Alone • Pathologic Tooth Migration • Occlusal Evaluation and Therapy **Diagnosis** • Clinical Diagnosis ○ Medical History ○ Dental History ○ Intraoral Radiographic Survey

	○ Casts ○ Clinical Photographs ○ Review of Initial Examination • Oral Examination ○ Examination of the Teeth ○ Examination of the Periodontium ○ Laboratory Aids to Clinical Diagnosis **Radiographic aids used in diagnosis of periodontal diseases.** • Radiographic Aids in the Diagnosis of Periodontal Disease ○ Normal Interdental Septa ○ Distortions Produced by Variations in Radiographic Technique • Radiographic Appearance of Periodontal Disease Periodontitis
	Midterm Exam
Session 4 (month 4)	Topics to be covered in the session (month) **Determination of prognosis** • Definitions, types of Prognoses • Overall, versus Individual Tooth Prognosis, Factors in Determinationof Prognosis • Overall Clinical Factors • Systemic and Environmental Factors • Local Factors • Prosthetic and Restorative Factors • Prognosis for Patients with Gingival Disease, • Prognosis for Patients with Periodontitis • Re-evaluation of Prognosis after Phase I Therapy **Treatment plan** • Master Plan for Total Treatment • Extracting or Preserving a Tooth, and therapeutic Procedures • Explaining Treatment Plan to the Patient • Rationale for Periodontal Treatment **Periodontal abscess.** • Classification of Abscesses ○ Periodontal Abscess ○ Gingival Abscess ○ Pericoronal Abscess • Acute versus Chronic Abscess • Periodontal versus Pulpal Abscess • Treatment of periodontal emergencies, specific treatment approaches **Chemotherapeutic and host modulation agents.** • Definitions • Classification of antibiotics.

	• Background , Rationale, and biologic Implications • Systemic Administration of Antibiotics • Local Delivery of Antibiotics • Serial and Combination Antibiotic Therapy • Host Modulation
Session 5 (month 5)	Topics to be covered in the session (month) **Sonic and ultrasonic instrumentations** • Mechanism of Action, Frequency • Stroke, water Flow • Types of Power Instruments • Efficacy and Clinical Outcome • Special Considerations • Aerosol Production • Cardiac Pacemakers **The periodontic-endodontic continuum** • Etiologic Factors • Classification • Effects of pulpal disease on the Periodontium • Effect of Periodontitis on the Dental Pulp • Differentiation between Periodontal and Pulpal Lesions • Signs and Symptoms of Periodontitis • Signs and Symptoms of Pulpal Disease • Differentiation between Pulpal and Periodontal Abscesses • Therapeutic Management of Pulpal and Periodontal Disease **General principles of periodontal surgery** • Patient preparation • Sedation and anesthesia • Tissue management • Hemostasis • Periodontal dressing • Postoperative instructions **Gingival Curettage** • Rationale • Indications • Procedure • Healing after Scaling and Curettage • Clinical Appearance after Scaling and Curettage
Session6 (month 6)	Topics to be covered in the session (month) **Treatment of gingival enlargement** • Timing of Treatment and Indications • Treatment Options of different type of gingival enlargement and Technique • Recurrence of Gingival Enlargement • Gingivectomy ○ Indications and Contraindications ○ Surgical Gingivectomy

	○ Gingivoplasty ○ Healing after Surgical Gingivectomy ○ Gingivectomy by Electro surgery ○ Laser Gingivectomy **The periodontal flap** • Classification of Flaps • Flap Design • Types of Incisions • Elevation of the Flap • Suture: types and techniques **The flap technique for pocket therapy** • Modified Widman Flap • Undisplaced Flap • Palatal Flap • Apically Displaced Flap • Flaps for Reconstructive Surgery • Papilla Preservation Flap • Conventional Flap **Reconstructive Periodontal Surgery** • Principle of GTR • Non-Bone Craft-Associated Procedures • Craft Materials and Procedures • Combined Techniques
Session7 (month 7)	Topics to be covered in the session (month) **Furcation: Involvement and Treatment** • Etiologic Factors • Diagnosis and Classification of Furcation Defects • Local Anatomic Factors • Treatment of Furcation • Surgical Therapy • Root Resection • Hemisection • Reconstruction **Periodontal Plastic and Esthetic Surgery** • Problems Associated with Attached Gingiva • Problems Associated with Shallow Vestibule • Problems Associated with Aberrant Frenum • Etiology of Marginal Tissue Recession **Periodontal- restorative interrelationship** • Periprosthetic Surgery ○ Management of Mucogingival Problems ○ Preservation of Ridge Morphology after Tooth Extraction ○ Crown-Lengthening Procedures • Restorative Interrelationships ○ Biologic Considerations

	○ Margin Placement and Biologic Width ○ Biologic Width Evaluation ○ Margin Placement Guidelines • Clinical Procedures in Margin Placement ○ Tissue Retraction ○ Provisional Restorations ○ Crown Contour ○ Pontic Design • Splinting
Session8 (month 8)	Topics to be covered in the session (month) **Oral implantology** • Clinical Aspects and Evaluation of the Implant Patient • Standard Implant Surgical Procedures • General Principles of Implant Surgery ○ Patient Preparation ○ Implant Site Preparation ○ One-Stage versus Two-Stage Implant Surgeries ○ One-Stage "Non-Submerged" Implant Placement ○ Two-Stage "Submerged" Implant Placement ○ Flap Design, Incisions, and Elevation ○ Flap Closure and Suturing • Postoperative Care **Periodontal maintenance** • Rationale for Supportive Periodontal Treatment • Maintenance Program • Recurrence of Periodontal Disease • Classification of Post treatment Patients • Referral of Patients to the Periodontisit • Maintenance for Dental Implant Patients
	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Biochemistry

1	**Course name**	**Biochemistry**
2	**Course Code**	**104**
3	**Course type: /general/specialty/optional**	
4	**Accredited units**	
5	**Educational hours**	
6	**Pre-requisite requirements**	
7	**Program offered the course**	
8	**Instruction Language**	
9	**Date of course approval**	

Brief Description:	Biochemistry is the study of the chemical processes that drive biological systems. This course explores the basic principles of biochemistry and develops the student's appreciation and understanding of biological networks. CHEM 104 focuses on the understanding of biochemical processes in the context of chemicalprinciples; Because the field of biochemistry is continually evolving and touches many areas of cell biology, this course also includes an elementary introduction to the study ofmolecular biology.
Course Prerequisites:	None
Textbooks required for this Course:	**1.** Ferrier, D. R. (2014). Lippincott's illustratedreviews, USA: Lippincott Williams & Wilkins. **2.** Harper's Illustrated Biochemistry.
Course Duration	70 hrs.
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation.

Course Objectives:	Upon completion of this course, the student willhave reliably demonstrated: **1.** The structures of amino acids, theirchemical properties and their organization into polypeptides andproteins. **2.** the basic elements of protein structure **3.** Key principles of protein function. **4.** enzymes and how they catalyze reactions as well as enzyme kinetics **5.** structure of fundamental monosaccharides and polysaccharides **6.** Describe the function of vitamins and cofactors and provide examples of eachgroup. **7.** structure and basic function ofnucleotides **8.** structure of different classes of lipidsand their roles in biological systems
	9. Describe nucleic acid structures,replication, transcription and translation. **10.** Describe nucleic acid structures,replication, transcription and translation. **11.** Apply chemical concepts involved in both anabolic and catabolic pathways **12.** Apply the law of thermodynamics to understand transport of molecules through the membrane and metabolism. **13.** Understanding metabolic pathwaysregulation
Course Assessments	1st assessment 2nd assessment Final
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (6hr.)	Topics to be covered protein & Amino acid: Structures, names, and three letter & one lettercodes of all 20 common amino acids, Zwitterion,ionization states of amino acids at different pH values, the structure of the peptide bond. Four levels of protein structure, factors that affect each level of protein structure, including hydrogen bonding and the hydrophobic effect, types of proteins (fibrous, globular, membrane),major features of keratin and collagen, denaturation& Gross structure of myoglobin & hemoglobin, structure, states, and function of heme At the end of this section, the student should beable to: 1. Identify all amino acids by structure, name, three letter, and one letter code 2. Determine the charge and ionization state of all ionizable groups on an aminoacid given a specific pH 3. Construct a peptide from a sequenceand given amino acid structures 4. Define each level of protein structure 5. Identify and interpret major factorsaffecting protein structure 6. Categorize proteins by type andcharacteristics 7. Recite major features of keratin andcollagen 8. Identify heme structure **9.** Recite and define three oxidation statesof heme.

Session 2 (5hr.)	Topics to be covered Enzyme: Enzyme nature, Classification of enzyme Theories of enzyme action, Factors affecting rateof enzyme action, Isoenzymes, Enzyme Specificity, Enzyme inhibitors, Enzyme kinetics , Regulation of enzyme activity (inducible , constitutive and allosteric regulation)& Enzyme in Diagnosis. At the end of this section, the student should beable to: 1. Define activation state, catalysis, andactivation state stabilization 2. Define and explain the threemechanisms of catalysis 3. Write the Michaelis-Menten equationand define V_{max} & K_M 4. Calculate V_{max} & K_M from a givenMichaelis-Menten curve 5. Define three types of inhibition 6. Interpret changes in V_{max} & K_M as theyapply to inhibition types 7. Identify major coenzymes and theirfunctions.
Session 3 (4 hr.)	Topics to be covered in the session of Nucleicacids chemistry: 1-Introduction to Nucleic acids, Nucleotidesand Nucleoside DNA, RNA, Other Nucleic acids, 2. Chemical Structure of Nucleic acids, Outlineof Purine Ring and Pyrimidine ring showing the different sources of the atoms present. 3-Types of DNA and RNA; Watson and CrickModel. 4-Detention of: Gene, chromosome andhistone. At the end of this section, the student shouldbe able to: 1. Identify the four bases from theirstructures
	2. Identify the three phosphorylated versions and abbreviations of nucleicacids 3. Define RNA & DNA and identify structural and functional differences 4. Define base pair and how many hydrogen bonds in each base pair 5. Draw a 2 to 3 base length, singlestranded nucleic acid 6. Use a genetic code to translate froman RNA sequence to a protein sequence

Session 4 (4 hr.)	Topics to be covered in the session of Carbohydrates chemistry: Importance of carbohydrates ,Classification of carbohydrates Monosaccharide, Glycosidic bond and glycosidesDisaccharides & Polysaccharides By the end of this session, you will be able to: 1. Understand what carbohydrate is and itsbiomedical important. 2. Classify carbohydrates into four major groupswith examples of each group. 3. List the monosaccharaides of biologicalimportance and learn their properties. 4. List the disaccharides of biological importanceand learn their properties Understand what invert sugar. 5. What is the biological importance of oligoand polysaccharides, differences between glycogen and starch, Differences between amylose and amylopectin 6. Understand is Heteropolysaccharides (heteroglycans). Mucopolysaccharides (glycosaminoglycans, Understand Chemistry and functions of proteoglycans and glycoproteins.
Session 5 (4hr)	Topics to be covered in the session ofLipids Chemistry Functions of lipids, Classification of lipids Fatty acids chemistry, Compound lipids (phospholipids, glycolipids and Lipoprotein) Derived lipids (steroids, sterols and eicosanoids) 1. At the end of this section, the student shouldbe able to: 1. Identify and classify lipids by structureand name
	2. Draw the structure of fatty acids (palmitic, stearic, oleic, linoleic,linolenic) 3. Draw the structure of triglycerides andphospholipids 4. Predict relative melting and polarityproperties of lipids 5. Identify function of each type of lipid
Session 6 (6hrs.)	Topics to be covered in the Vitamins Introduction, Classification, Structure, Function, Deficiency, Toxicity, RDA and sourceof: **I-** Fat soluble vitamins: Vitamin A, Vitamin DVitamin E Vitamin K. **II-** Water soluble vitamins: Ascorbic acid,Thiamine. Riboflavin, Niacin Pyridoxine, Biotin, Pantothenic acid Folic acid, Cyanocobalamin



Session 7 (8hrs.)	Topics to be covered in the session ofCarbohydrate metabolism Digestion of carbohydrates, Absorption of monosaccharides, Glycolysis, Oxidative decarboxylation, Citric acid cycle (Krebs' cycle)Gluconeogenesis, Glycogen metabolism Blood glucose, Regulation and maintenance of blood glucose, Diabetes mellitus, glycogen storage disease, Fructofuranan and Galactosemia. At the end of this section, the student should beable to: 1. Assemble all intermediate structuresand names in proper order in the glycolysis/gluconeogenesis and citricacid cycle pathways 2. Define substrate level phosphorylation& oxidative decarboxylation 3. Calculate ATPs, NADHs, and $FADH_2$sderived at each step. 4. Define protein phosphorylation, itsfunction and consequences 5. Recite the effects of insulin and glucagon on all pathways in glucosemetabolism
Session 8 (Week 8)	Midterm Exam
Session 9 (8hrs.)	Topics to be covered in the session of Lipid metabolism, Digestion of lipids Absorption of lipids, Errors of lipid digestion and absorption, Fate of absorbed lipid, Storage and mobilizationof lipids, Lipogenesis, Lipolysis Fatty acid oxidation, De Novo synthesis of fattyacids, Ketone body's metabolism, Cholesterol metabolism, Eicosanoids metabolism Phospholipids metabolism &Fatty liver. At the end of this section, the student should beable to: 1. Calculate total acetyl-CoA, NADH, andFADH2 produced in the β-oxidation ofany saturated fatty acid 2. Calculate total acetyl-CoA, NADPH, and FADH2 required for the synthesis of anyfatty acid. 3. Identify the actions of insulin andglucagon on fatty acid synthesis, storage, and β-oxidation 4. Define ketone bodies, their function, and consequences of their production. 5. Identify the major intermediates in thecholesterol pathway 6. Identify the lipoproteins involve in lipidtransport, their origins, and their functions.
Session 10 (1hrs.)	Topics to be covered in the session ofGastrointestinal drugs: (1hr) 1. Classify Antiulcer agents. 2. Discuss H2 receptor antagonists. Proton pumpinhibitors Mech of action uses and adverse effect. 3. Identify Antibiotics for H. pylori infection 4 . mention new Antacid's agents &prostaglandin analogue.

Session 11 (8hrs.)	Topics to be covered in the session of Deamination and transamination, Urea cycle,glucogenic vs. ketogenic, essential, and non- essential amino acids At the end of this section, the student should beable to: 1. Predict the result of a deamination onan amino acid 2. Assemble all intermediate structures and names in proper order in the urea cycle 3. Define glucogenic and ketogenic aminoacids 4. Identify all amino acids as eitheressential or nonessential.
Session 12 (6hrs.)	Topics to be covered in the session ofMinerals Macrominerals Microminerals (trace elements) At the end of this section, the student shouldbe able to: 1. classify minerals 2. describe the functions, Daily requirementsof minerals
Session 13 (10hrs.)	Topics to be covered in the session ofLab 1- Estimation of L- ascorbic acids. 2- Determination of serum total proteins andalbumin. 3- Estimation of serum calcium.4- Estimation of vitamin D . The aims of the laboratory section: 1. To have the students become familiar with biochemical methods or techniques. 2. To use the following biochemicalmethods.
Session 14	Final exam
Attendance Expectations	Students are expected to attend every session ofclass, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to belife-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
	2. Adopt the principles of lifelong learningneeded for continuous professional development.
Course Change	Information contained in this course outline is correct at the time of publication. Content of thecourses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

General Anatomy

1	**Course name**	General Anatomy
2	**Course Code**	103
3	**Course type: /general/specialty/optional**	
4	**Accredited units**	
5	**Educational hours**	
6	**Pre-requisite requirements**	
7	**Program offered the course**	
8	**Instruction Language**	
9	**Date of course approval**	

Brief Description:	General anatomy is a required, lecture-based course for second year students. The course consists of lectures and teaching laboratories which cover the basic anatomy of the human body and description organs according to their location, blood & nerve supply on body system.
Course Prerequisites:	None
Textbooks required for this Course:	1- Gray s Textbook of Anatomy for students 2- Cunningham's Textbook of practical anatomy. 3- Clinical Anatomy by Rishard S. Snell. 4- Medical Embryology by T. W. Sadler. 5- Surface and Radiological Anatomy byHamilton Simon
Course Duration	80 hours
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation, Laboratory experiments
Course Objectives:	Upon completion of this course, the student willhave reliably demonstrated the ability to: A- Anatomy of the skull and cervical vertebrae B- Temporomandibular joint C- Anatomy of the neck D- Major vessels of the head & neck E- Lymphatic drainage of the head & neck F- Anatomy of the face G- Anatomy of the nose, eye and ear H- Anatomy of the upper airwaysI- Imaging of the head & neck

Course Assessments	1- Continuous evaluation. 2- Assessment & final examinations Total 100 marks (60% written +40 % practical &oral) divided as follow: 1- Midyear assessment 30% (30 marks)A- Written exam (MCQ) :20 marks B- Practical exam (spotting & comments): 10marks 2- Final examination 70% (70 marks): A- Written exam (MCQ) :50 marks B- Practical exam (spotting & comment):10 marks C- Oral exam: bone & soft tissue: 10marks

Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (7 hrs.)	Topics to be covered in the session of 1-General Anatomy: (7 hours): 1. Outline Anatomical terms. 2. Determine Skin and fasciae. 3. Classify Skeletal system. 4. Differentiate articular system. 5. Discuss Muscular system. 6. Illustrate Vascular system. 7. Discuss Nervous system.
Session 2 (7 hr)	Topics to be covered in the session of SystemicAnatomy: (7 hours) 1. Discuss Gastrointestinal tract. 2. Illustrate Cardiovascular system. 3. Overview Respiratory system. 4. Outline Urinary system. 5. Discuss Genital systems. 6. Illustrate Nervous system. 7. Introduction to Endocrine system.
Session 3 (Week 3)	**Midterm Exam**
Session 4 (30)	Topics to be covered in the session for RegionalAnatomy of the head & neck: (30 hrs.) 1. Discuss Skull, mandible & cervicalvertebrae. 2. Illustrate Scalp. 3. Illustrate Face. 4. Recognize Cervical fasciae. 5. Discuss Triangles of the neck. 6. Illustrate Back of the neck. 7. Overview Cranial cavity. 8. Mention Orbit & its contents. 9. Demonstrate Parotid gland. 10. Differentiate Temporal andinfratemporal regions. 11. Discuss Submandibular region. 12. Outline Midline region & thyroid glands. 13. Discuss Great vessels of the neck. 14. Illustrate Cranial nerves, cervical plexus. 15. Discuss Oral cavity. 16. Illustrate Pharynx 17. Illustrate Larynx. 18. Determine Nasal cavity. 19. Discuss Ear. 20. Discuss lymph drainage of the head &neck. 21. Illustrate Joints of the head & neck. 22. Illustrate X-Ray of the head & neck.

Session 5 (6 hours)	Topics to be covered in the session for Specialembryology: (6 hours): 1. Development of the face. 2. Development of the pituitary gland. 3. Development of the thyroid gland. 4. Development of the tongue. 5. Development of the salivary glands.
Session 6	Final exam
Attendance Expectations	Students are expected to attend every session ofclass, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to belife-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of thecourses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

B.D.S Program

1	**Course name**	B.D.S Program
2	**Course Code**	204
3	**Course type: /general/specialty/optional**	specialty
4	**Accredited units**	3 units
5	**Educational hours**	Lecture: (2 hours/week) Practical: (2hours/week)
6	**Pre-requisite requirements**	N/A
7	**Program offered the course**	Fixed prosthodontics department Second year

8	**Instruction Language**	English
9	**Date of course approval**	2020/2021

Brief Description	This course will provide students with a fundamental understanding of the Defines what is mean by crown & bridge, determines indications, contraindications of a crown and fixed partial denture (FPD), Demonstrates the ability to perform a preparation for full coverage restoration and describes all laboratory steps for construction of crowns.
Textbooks required for this Course:	Book Title & ISBN: • Shillingburg HT,Hobo s, Whitsett LD,Jacobi R,Brackett SE,editors. Preparation for extensively damaged teeth. In: fundamentals of fixed prosthodontics. 3rd ed. Chicago: Quintessence; 1997. Additional Resources: • Rosenstiel, SF; Land, MF; and Fujimoto, J. Contemporary fixed prosthodontics. 4th ed. St Louis: Mosby-yearbook; 2006. Additional textbooks, handouts, and web links may be used in this course at the discretion of your instructor.
Course Duration	Lecture: (2 hours/week) Practical: (2hours/week) Total: (4 hours for weeks)
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation, Laboratory experiments.....etc.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. Understand the meaning of Fixed prosthodontics. 2- To know the basic information, which is necessary for understanding the laboratory procedures and techniques involved in the fabrication of crowns and different types of fixed partial dentures.
Course Assessments	Assignment 1: 25% Final lab: 20%, Final Exam: 40% , Periodic evaluation for student work inthe lab: 5 % , Oral 10% A 60 % is required for a pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course. Instructors are encouraged to use and design any assignment that may be beneficial to the student-learning outcome.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction to fixed partial denture terminology • To orient the fixed prosthodontics as a subject in relation to the other disciplines of dentistry. Brief history of fixed prosthodontics followed by aims and terminology.
Session 2 (Week 2)	Effect of tooth loss.

	• To make the student understand the importance of maintaining the integrity of dental arches by explaining the consequences.
Session 3 (Week 3) (Week 4)	Principles of tooth preparations for extra-coronal restorations • A detailed instruction regarding the fundamental principles involved in designing the tooth preparation for porcelain and cast metal restoration with emphasis on conservation of tooth structure, retention and resistance form, structural durability, and marginal integration.
Session 4 (Week 5)	Full metal restoration. • To understand advantages & disadvantages of Full metal restoration. • To know the indications and contraindications and the detailed procedure of tooth preparation including armamentarium.
Session 5 (Week 6)	Metal ceramic restoration. • To understand advantages & disadvantages of Metal ceramic restoration. • To know the indications and contraindications and the detailed procedure of tooth preparation including armamentarium.
Session 6 (Week 7)	All ceramic restoration. • To understand advantages & disadvantages of all ceramic restoration. • To know the indication and contraindication of all ceramic restoration. • To learn step by step tooth preparation to receive all ceramicrestoration.
Session 7 (Week 8) (Week 9)	Working (definitive) casts and dies. • To learn the requirements, advantages, disadvantages, and procedure ofconstructing working casts and separate die and working cast with removable die including die-lock tray.
Session 8 (Week 10)	Midterm Exam
Session 9 (Week 11) **Session 10 (Week 12) (week 13)**	Wax pattern construction • To know types and requirements of casting wax. • To understand the Techniques of fabrication and method ofconstruction wax pattern and how to finish wax pattern. Spruing, investing, and casting procedures • To describe and evaluate the spruing former requirements andTechniques, • To understand the process of investing and Wax elimination. • To know casting procedure and machines and how to finishing ofthe cast Restoration

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Session 16 (Week 16)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Removable prosthodontics for Fourth year

1	**Course name**	Removable prosthodontics
2	**Course Code**	402
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	Credit 4
5	**Educational hours**	Six hours A week
6	**Pre-requisite requirements**	Physics, chemistry, mathematics, biology.
7	**Program offered the course**	B.D.S program
8	**Instruction Language**	English
9	**Date of course approval**	2021- 2022



Brief Description	This course comprehensively reviews contemporary principles and techniques used for the management of partially edentulous jaws. The student will learn biomechanics of prosthetic partial dentures, classification of edentulous case, clinical procedures necessary for the proper design, construction and fit of removable partial dentures. In addition, this course will provide the student with the clinical experience in all phases of advanced complex removable prosthesis as overdentures, single and immediate denture. Also, this course will include a series of lectures and seminars covering different maxillofacial cases and management of patients requiring prosthetic appliances of any of the orofacial defects.
Textbooks required for this Course	➢ Stewart's Clinical Removable Partial Prosthodontics (Phoenix, Stewart's Clinical Removable Partial Prosthodontics) 4th Edition. 2008. ➢ McCracken's Removable Prosthodontics, by McGivney GP, Carr AB. The C.V. Mosby Co., St. Loius. 11th Edition 2012.
Course Duration	Six hours a week
Delivery	➢ Lectures- illustrated with cases, photos, and diagrams. ➢ Practical sessions (direct contact between the students and their demonstrators and staff members also with their patients). ➢ Lecture notes. ➢ Suitable patients for partial denture construction.
Course Objectives:	At the completion of this course, the postgraduate student should be able to: • Describes in depth the factors that influence treatment plan and preparation of soft and hard tissues for dental prosthesis. • Illustrates the ability to perform clinical steps for construction of partial prosthesis. • Describes all clinical steps for construction of partial denture and special treatment procedures, also determines what's mean by patient recall and denture care. • Describes all clinical phases of advanced complex removable prosthesis as partial overdentures and immediate prosthesis. • Discuss the management of patients requiring prosthetic appliances include clinical prosthodontics management of the implant patients for partial prosthesis. • Discus the management of patients requiring prosthetic appliances of any of the orofacial defects and maxillofacial appliances.
Course	Internal Assessment Marks total out of [30] marks Activity. Periodic exam for continue evaluation of student

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Assessments	Final Examination Final Written Examination out of 60 marks Final Oral Examination out of 20 marks Clinical examination out of 60 marks Thus, the evaluation of student will be out of TOTAL [200 MARKS] for both third and fourth dental year Reset Examination Reset Written Examination Reset Oral Examination Clinical exam
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Oral environment of partial denture patient.
Session 2 (Week 2)	Examination, diagnosis and treatment planning for partially edentulous patients.
Session 3 (Week 3)	Local and systemic conditions affecting oral tissues.
Session 4 (Week 4)	Patient education relating to partial dentures
Session 5 (Week 5)	Primary impressions and diagnostic casts
Session 6 (Week 6)	Indications and contraindications of RPDs including advantages and disadvantages
Session 7 (Week 7)	Surveying procedure
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Designing the work authorization and instructions to the technicians
Session 10 (Week 10)	Principles of partial denture designing including designing: a) clasps , b)major and minor connectors , c) rests
Session 11 (Week 11)	Mouth preparation for RPD
Session 12 (Week 12)	Modifications of tooth contours
Session 13 (Week 13)	Final impressions for removable partial denture
Session 14 (Week 14)	Try-in of metal framework, inter-maxilla ay relations (jaw relations) for RPD

Session 15 (Week 15)	Selection and arrangement of artificial teeth; & try-in of the waxed -up partial dentures.
Session 16 (Week 16)	Insertion of partial denture, advice to a partial denture patient , adjustment, and follow-up procedures
Session 17 (Week 17)	Repair of removable partial dentures and addition of clasps
Session 18 (Week 18)	Harmful effects of RPD
Session 19 (Week 19)	Biological and periodontal considerations.
Session 20 (Week 20)	Special unconventional R. P. D
Session 21 (Week 21)	Overdentures.
Session 22 (Week 22)	Special denture prosthesis
Session 23 (Week 23)	Maxillofacial prosthesis
	Final exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, collaborate properly with each other, with colleagues in teamwork and with patients.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Physiology

1	**Course name**	**Physiology**
2	**Course Code**	**105**
3	**Course type: /general/specialty/optional**	
4	**Accredited units**	

5	**Educational hours**	
6	**Pre-requisite requirements**	
7	**Program offered the course**	
8	**Instruction Language**	
9	**Date of course approval**	

Brief Description	This course introduces students to thephysiology of the human body. Students examine the mechanisms of body function, organized around the central theme ofhomeostasis – how the body meets changing demands while maintaining the internal constancy necessary for all cells and organs to function.
Course Prerequisites:	**None**
Textbooks required for this Course:	• Indu Khurana, (2012) Medical Physiology for Undergraduate Students,Elsevier • Hall, John E. Guyton, Arthur C. (2011)Guyton and Hall textbook of medicalphysiology /Philadelphia, PA : Saunders/Elsevier. • Barrett, K. E & ,.Ganong, W. F. (2012). Ganong's review of medical physiology.New York: McGraw-Hill Medical
Course Duration	54 hours
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, activeparticipation, Laboratory experiment.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: **1.** Demonstrate an understanding of the basicphysiological concepts related to human bodyfunctions **2.** Describe the functions of the major organ systems in the human body including the endocrine, nervous, muscular, cardiovascular, respiratory, renal, digestive, immune, and reproductive systems. **3.** Use the scientific method in the study ofphysiology. **4.** Demonstrate proficiency in laboratoryexperimentation in physiology **5.** Demonstrate proficiency in writing scientificlab reports of the experiments performed in the laboratory section of thecourse

Course Assessments	Assessment Exam. Written and MCQ Exam. 20 marksPractical Notebook 5 marks Total 25 marksFinal Exam. MCQ Exam. 45 marks Practical Exam. 20 marks Oral Exam. 10 marks Total 75 marks Reset Exam. MCQ Exam. 70 marks Practical Exam. 20 marks Oral Exam. 10 marksTotal 100 marks
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (4hrs.)	Topics to be covered in the session of generalphysiology (4 hrs.) **1.** Introduction to Homeostasis **2.** Types of Body Fluid Compartment andComposition **3.** Discuss Osmosis, Osmolality andTonicity of Body Fluids **4.** Elements of Cell Membrane
Session 2 (4hrs.)	Topics to be covered in the session of Nerve andMuscle Physiology (4hrs.) **1.** Neuron (Nerve Fiber) **2.** Resting Membrane Potential **3.** Action Potential and conduction ofImpulse in a nerve fiber **4.** Neuromuscular Junction **5.** Transmission of Impulse throughneuromuscular Junction **6.** Skeletal, Smooth, and Cardiac Muscles **7.** Contraction of Skeletal Muscle **8.** Isometric and Isotonic MuscleContractions
Session 3 (8hrs.)	Topics to be covered in the session of Blood (8hrs.): 1. Physical Characteristics of Blood 2. Functions of Blood 3. Plasma Proteins and their Functions 4. Red Blood Cells (Erythrocytes), Hemoglobin, and Regulation of Erythropoiesis 5. Anemia and Polycythemia 6. Blood Groups: ABO and Rh BloodGroups
	7. Role of Blood Groups in BloodTransfusion 8. White Blood Cells (Leukocytes) , Typesand their Important Functions 9. Leukocytosis and Leukopenia 10. Immunity, Types and DifferentialFeatures 11. Platelets and their Functions 12. Hemostasis and mechanism of BloodCoagulation 13. Bleeding Disorders

Session 4 (8hrs.)	Topics to be covered in the session ofCardiovascular System (8hrs.): 1. Functions of Cardiovascular System 2. Functional Anatomy of the Heart 3. Systemic and Pulmonary BloodCirculations 4. Properties of Cardiac Muscle 5. Conductive System of the Heart 6. Electrical and Ionic Basis of MyocardialAction Potential and Factors Affecting Contrctility of Myocardium 7. Cardiac Cycle 8. Electrocardiography 9. Cardiac Output and Factors Affecting it 10. Regulation of Cardiac Output 11. Arterial Blood Pressure 12. Regulation of Arterial Blood Pressure
Session 5 (Week 5)	Midterm Exam
Session 6 (8hrs.)	Topics to be covered in the session ofrespiration (8hrs): 1. Functional Anatomy and Overview ofRespiratory System 2. Conductive Zone and RespiratoryParenchyma 3. Pulmonary Surfactant 4. Respiratory Muscles 5. Basic Mechanism of Lungs Expansionand Cotrction 6. Airway Resistance 7. Ventilation, Lung Volumes andCapacities 8. Partial Pressures of Atmospheric andAlveolar Air 9. Diffusion of Oxygen and Carbon dioxideacross Alveolo-capillary membrane 10. Oxygen Transport in Blood

	11. Carbon dioxide Transport in Blood 12. Hypoxia: Types and DifferentialFeatures.
Session 7 (8hrs.)	Topics to be covered in the session of RenalPhysiology (8hrs.) 1. Kidney Functions 2. Functional Anatomy of Kidney 3. Basic Processes involved in UrineFormation 4. Glomerular Filtration Rate (GFR) 5. Renal Tubular Reabsorption andSecretion 6. Renal Handling of some individual Substances. e.g., Glucose, Urea, Bicarbonate, Sodium, Potassium, and Water, etc. 7. Diuresis, Types and Differential Features 8. Urine Concentration Mechanism 9. Hormones Regulating Renal Functions
Session 8 (4hrs.)	Topics to be covered in the session of NervousSystem (4hrs.): 1. Organization of Nervous System:Central & Peripheral; Somatic & Autonomic; and Sympathetic & Parasympathetic 2. Spinal and Cranial nerves 3. Components of a typical nerve cell (Neuron), and some important types 4. Sensory Nervous System 5. Receptors, Types and Properties 6. Sensory Pathways: Dorsal Column andAnterolateral Pathways 7. Sensation from Face 8. Touch and Proprioceptors 9. Pain and Temperature 10. Motor Nervous System 11. Pyramidal and Extrapyramidal Tracts 12. Upper and Lower motor neuron Lesions
Session 9 (8hrs.)	Topics to be covered in the session ofENDOCRINE SYSTEM (8hrs.): 1. Endocrine Glands and Hormones 2. Control of Hormone Synthesis and Release



	3. Hormones of Hypothalamus, nature,major functions, and associated abnormalities. 4. Anterior and Posterior Pituitary Hormones, nature, major functions, andassociated abnormalities. 5. Thyroid Hormones, Biosynthesis; Storage & Release from Thyroglobulin 6. Parathyroid Hormones, nature, major functions, and associated abnormalities. 7. Pancreatic Hormones, nature, major functions, and associated abnormalities. 8. Adrenal Cortex Hormones, Control ofCortisol and Aldosterone Secretions, major functions, and associated abnormalities. 9. Adrenal medulla Hormones, nature,major functions and associated abnormalities. 10. Sex Hormones, nature, major functions,and associated abnormalities. 11. GIT Hormones, nature, major functionsand associated abnormalities.
Session 10 (4hrs.)	Topics to be covered in the session of Gastrointestinal Physiology: (4 Hours): 1. Primary Functions of Gastrointestinaltract (GIT) 2. General arrangement (Histology) of GIT 3. Salivary Glands: Composition andFunctions of Saliva Mastication (Chewing), Deglutition (Swallowing) phases; Esophageal peristalsis 4. Stomach: Regions, Cell types andsecretions 5. Gastric juice, and Functions of Stomach 6. Pancreatic Secretions (Exocrine) : Secretions, Main Enzymes and their Functions; Functions of Pancreatic Juice 7. Liver: Metabolic Functions; Functions ofGall bladder 8. Small Intestine: Secretions, and theirfunctions 9. Large Intestine: Movements and theirFunction
Session 11 (Week 16)	**Final exam**
Attendance Expectations	Students are expected to attend every session ofclass, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to belife-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.

Course Change	Information contained in this course outline is correct at the time of publication. Content of thecourses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Dental Anatomy

1	**Course name**	Dental Anatomy
2	**Course Code**	101
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	86 hrs
5	**Educational hours**	2hr/week
6	**Pre-requisite requirements**	English, Biology
7	**Program offered the course**	B.D.S
8	**Instruction Language**	English
9	**Date of course approval**	1.1.2021

Brief Description	This course will provide students with a fundamental understanding of the normal anatomical, physiological and biomechanical relationships of dental structure, and to recognize the clinical significance of the shape and contour of the normal dentition and occlusion. Also, it will provide student with knowledge of chronologies of human dentition and function of primary and permanent dentition.
Textbooks required for this Course	Wheeler's dental anatomy, physiology and occlusion 10th edition Lecture presentation and notes
Course Duration	48 hrs.
Delivery	Lecture-based, Group interaction and discussion and practical works.

Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: • Explain with dental terms the morphology and functions of primary and permanent dentition. • Define the normal occlusion of the teeth and identify the various types of occlusions according to its classification. • Know the chronologies of the primary and permanent dentitions. • List the differences between the primary and permanent dentitions. • Recognize the shape and size of the pulp chambers and the number of root canals of the permanent dentition. • Utilize the various system of nomenclature of primary and permanent dentition in clinic. • Compare and contrast form and function of teeth in relation to the important physiologic factors of alignment, contact, and occlusion. • Differentiate between the morphological characteristics of all permanent and deciduous teeth. • Recognize the basic line of development and normal centric occlusion • Organize for teeth preparation and restoration as well as for prosthodontic treatment. • Reproduce in drawing and carving of wax the accurate morphology of the permanent dentition. • Utilize accurate dental terminology of the teeth and oral tissues. • Differentiate between the normal occlusion and malocclusion. • Communicate efficiently with colleagues, and supervisors. • Acquisition of information in scientific manner and building the ability of work in groups.
Course Assessments	Half Exam: 30% Final Exam: 70% Final (Written Exam: 40% - Practical Exam: 20% - objective Exam: 10%)A 60% is required for a pass in this course. Homework & Practical work Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course, also to attend the practical sessions.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction • Nomenclature of deciduous and permanent teeth • The anatomy of the crown and root • The anatomical landmarks
Session 2 (Week 2)	Introduction • Division into thirds, line angles and point angles • Methods of measuring teeth • Teeth numbering system • Chronologies of human dentition

Session 3 (Week 3)	Maxillary central incisor • Detailed description of the labial aspect of maxillary central incisor • Detailed description of the palatal aspect of maxillary central incisor • Detailed description of the mesial aspect of maxillary central incisor • Detailed description of the distal aspect of maxillary central incisor • Detailed description of the incisal aspect of maxillary central incisor
Session 4 (Week 4)	Maxillary lateral incisor • Detailed description of the labial aspect of maxillary lateral incisor • Detailed description of the palatal aspect of maxillary lateral incisor • Detailed description of the mesial aspect of maxillary lateral incisor • Detailed description of the distal aspect of maxillary lateral incisor • Detailed description of the incisal aspect of maxillary lateral incisor
Session 5 (Week 5)	Mandibular central and lateral incisor • Detailed description of the labial aspect of mandibular central incisor • Detailed description of the palatal aspect of mandibular central incisor • Detailed description of the mesial aspect of mandibular central incisor • Detailed description of the distal aspect of mandibular central incisor • Detailed description of the incisal aspect of mandibular central incisor • Detailed description of the labial aspect of mandibular lateral incisor • Detailed description of the palatal aspect of mandibular lateral incisor • Detailed description of the mesial aspect of mandibular lateral incisor • Detailed description of the distal aspect of mandibular lateral incisor • Detailed description of the incisal aspect of mandibular lateral incisor
Session 6 (Week 6)	Maxillary and mandibular canine • Detailed description of the labial aspect of maxillary canine • Detailed description of the palatal aspect of maxillary canine • Detailed description of the mesial aspect of maxillary canine • Detailed description of the distal aspect of maxillary canine • Detailed description of the incisal aspect of maxillary canine • Detailed description of the labial aspect of mandibular canine • Detailed description of the lingual aspect of mandibular canine • Detailed description of the mesial aspect of mandibular canine
	• Detailed description of the distal aspect of mandibular canine • Detailed description of the incisal aspect of mandibular canine
Session 7 (Week 7)	Maxillary first premolar • Detailed description of the labial aspect of maxillary first premolar • Detailed description of the palatal aspect of maxillary first premolar • Detailed description of the mesial aspect of maxillary first premolar • Detailed description of the distal aspect of maxillary first premolar • Detailed description of the occlusal aspect of maxillary first premolar
Session 8 (Week 8)	Midterm Exam

Session 9 (Week 9)	Maxillary second premolar • Detailed description t of the buccal aspect of maxillary second premolar • Detailed description of the palatal aspect of maxillary second premolar • Detailed description of the mesial aspect of maxillary second premolar • Detailed description of the distal aspect of maxillary second premolar • Detailed description of the occlusal aspect of maxillary second premolar
Session 10 (Week 10)	Mandibular first and second premolar • Detailed description of the labial aspect of mandibular first premolar • Detailed description of the palatal aspect of mandibular first premolar • Detailed description of the mesial aspect of mandibular first premolar • Detailed description of the distal aspect of mandibular first premolar • Detailed description of the occlusal aspect of mandibular first premolar • Detailed description of the labial aspect of mandibular second premolar • Detailed description of the lingual aspect of mandibular second premolar • Detailed description of the mesial aspect of mandibular second premolar • Detailed description of the distal aspect of mandibular second premolar • Detailed description of the occlusal aspect of mandibular second premolar
Session 11 (Week 11)	Maxillary first molar • Detailed description of the buccal aspect of maxillary first molar • Detailed description of the palatal aspect of maxillary first molar • Detailed description of the mesial aspect of maxillary first molar • Detailed description of the distal aspect of maxillary first molar • Detailed description of the occlusal aspect of maxillary first molar
Session 12 (Week 12)	Maxillary second and third molar • Detailed description of the buccal and palatal aspect of maxillary second molar • Detailed description of the mesial and distal aspect of maxillary second molar
	• Detailed description of the occlusal aspect of maxillary second molar • Detailed description of the buccal and palatal aspect of maxillary third molar • Detailed description of the mesial and distal aspect of maxillary third molar • Detailed description of the occlusal aspect of maxillary third molar
Session 13 (Week 13)	Mandibular first premolar • Detailed description of the buccal aspect of mandibular first molar • Detailed description of the lingual aspect of mandibular first molar • Detailed description of the mesial aspect of mandibular first molar • Detailed description of the distal aspect of mandibular first molar • Detailed description of the occlusal aspect of mandibular first molar

Session 14 (Week 14)	Mandibular second and third molar • Detailed description of the buccal and palatal aspect of mandibular second molar • Detailed description of the mesial and distal aspect of mandibular second molar • Detailed description of the occlusal aspect of mandibular second molar • Detailed description of the buccal and palatal aspect of mandibular third molar • 10 • Detailed description of the mesial and distal aspect of mandibular third molar • Detailed description of the occlusal aspect of mandibular third molar
Session 15 (Week 15)	Anatomy of the pulp cavity • Pulp cavities of maxillary and mandibular teeth
Session 16 (Week 16)	The primary teeth • Differences between primary and permanent teeth • Brief description of maxillary deciduous teeth • Brief description of mandibular deciduous teeth • Brief description of mandibular deciduous teeth
Session 17 (Week 17)	Crown form and periodontium • Geometrical concept of crown form • Direct factors affecting periodontium • Inter proximal spaces • Proximal contact point • Embrasure
Session 18 (Week 18)	Crown form and periodontium • Indirect factors affecting periodontium • Facial and lingual contour • Curvature of cervical line • Crown form

	• Root form • Angulations of the teeth Embrasure
Session 19 (Week 19)	The occlusion • Concept of occlusion • Development of occlusion of primary and permanent dentition • Dental arch form • Compensating curvature of the dental arch • Alignments of teeth in relation to each other • Occlusal contact and intercuspal relations of all teeth in centric occlusion • Mandibular movement • Masticatory cycle
Session 20 (Week 20)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supportedwith a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric,computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Pediatric Dentistry

1	**Course name**	Pediatric dentistry
2	**Course Code**	407
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	2 clinic hours per week / 2 hours lectureper week Credit hours 4 per week
5	**Educational hours**	4hrs/week (2 theory and 2 hours clinic)
6	**Pre-requisite requirements**	After successful third year exam. Fit andwell and comply with infection control procedures.

7	**Program offered the course**	Lectures and clinical
8	**Instruction Language**	English
9	**Date of course approval**	10/12/2021

Brief Description	This course will provide students with a fundamental understanding of the nature of the dentistry for children how to deal with children psychologically by understand different behavior management techniques. Know the chronology of the primary and permanent teeth. and prevention and treatment of dental caries in children and how to differentiate between them. Understand different restoration techniques and dental materials.Understand different local anesthesia technique and extraction. Understand phamacotherapeutic agents in paediatric dentistry. Management of soft tissues, primary and permanent teeth injuries.
Textbooks required for this Course	Book Title & ISBN: McDonalds pediatric dentistry Cameron pediatric dentistry Richard Welbury, paediatric Dentistry, 2nd edition. A manual of paedodontics. By R.J.Andlaw &W.P.Rock. 4TH edition. Color Atlas of ORAL diseases in Children and Adolescents, by Crispian Scully& Richard Welbury, 1996. . Clinical problem Solving in ORTHODONTICS AND PAEDIATRIC DENTISTRY, by Declan Millett & Richard Welbury,2005. Oral and Dental Trauma in Children and Adolescents, by Graham Roberts and Peter Longhurst, 1995. .kennedy's paediatric operative dentistry, Additional resources: handouts, and web links may be used in this course at the discretion of your instructor.
Course Duration	36 weeks
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation, clinical courses.
Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: Understand the morphology and nature of primary and permanent teeth. Identify the difference between primary and permanent teeth. Recognize different diagnosis and treatment options for dental caries in children. Identify representations, terms, conditions, and how to deal with medically compromised and special needs children. Recognize different treatment options for decayed primary and permanent teeth. Construct a good rapport with paediatric patient and different behavior management techniques.

	•Know most common medications used in children and how towrite prescription and referral letter. • Develop an intellectual skill in how to make case history, general medical, dental and social histories. full oral healthdepth assessment. • Implement advanced oral assessment tools. Disinfection and sterilization to ensure infection control procedures.
Course Assessments	Assignment 1: Midterm assessment including written and clinical monitoring and continuous evaluations. Assignment 2: Final Exam: 70% Daily Assessments 30%60% is required for pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course. Instructors are encouraged to use anddesign any assignment that may be beneficial to the student-learning outcome.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Month 1)	Topics to be covered in the session (per week) • **Introduction to pediatric dentistry:** Scope, philosophy andnature of pediatric dentistry. • **Child psychology:** patterns of behavior up to adolescences, variables affecting child behavior and behavior child management techniques. • **Development of occlusion**, chronology of eruption and shedding of the teeth. Interceptive orthodontics. Anomalies associated with development, eruption, number, size, structure,form of the teeth and their management. Space managementsAssignment 1 handed out, handed out, quiz, symposium, evaluation.
Session 2 (Month 2)	Topics to be covered in the session (per week) • **Restorative dentistry in pediatric dentistry**: Histomorphology differences between primary and permanentteeth. Methods for diagnosis of dental caries. Dental charting,radiographic assessment. Preventive aspects. Minimum Invasive Dentistry. Early childhood caries and management. Rampant caries. Different restorative materials. Different tools to be used in isolation techniques during dental restorations.

	Different crowns that used in pediatric dentistry including stainless steel crowns, composite, polycarbonate, veneers. • Bleaching of vital and non-vital teeth. Assignment 2 handed out, quiz, symposium, evaluation.
Session 3 (Month 3)	Topics to be covered in the session (week) • **Common oral habits in children**. Definition, classification, types and management. • **Local anesthesia.** • **Oral surgical considerations for children:** Factors to be considered before surgery. Indications for extraction of primary teeth. Contraindications for extraction. Indications for extraction of first permanent molar. Treatment planning for extraction of primary teeth. Techniques of removalof the teeth and preoperative and postoperative instructions. Surgical removal of teeth; Ankylosed teeth, Supernumerary teeth, surgical exposure of unerupted teeth, and frenectomy.handed out, quiz, symposium, evaluation.
Mid- term exam.	
Session 4 (Month 4)	Topics to be covered in the session (per week) • **Traumatic injuries to anterior teeth**. Epidemiology. Aetiology. Predisposing factors. Classifications and management. Emergencyand intermediate management. • **Pulp therapy for children**: Sequelae of dental caries, pre-operative assessment before pulp therapy, indications and contraindications for pulp therapy, types of pulp therapy: Indirect pulp capping, Indirect pulp capping, pulpotomies andpulpectomy, apexification, apex genesis, pulp regeneration, reaction of the pulp to different pulp treatments and materialsused for pulp therapy. • **Common periodontal and soft tissue lesions in children.** Aetiology/classification/clinical features and management. handed out, quiz, symposium, evaluation.
Session 5 (Month5)	Topics to be covered in the session (week) • **Pharmacotherapeutics in children**. Commonly used drugs in pediatric dentistry, mode of action, indication, contra-indication, dosages, side effects and adversereactions.

	• **Dentistry for children in special needs.** Classifications, problems and management. • **General anesthesia**, indications, contraindications, importance in pediatric dentistry. handed out, quiz, symposium, evaluation.
Final Exam (written, clinical evaluation and oral evaluation)	
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until classis dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-longlearners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Oral Medicine

1	**Course name**	Oral Medicine
2	**Course Code**	406
3	**Course type: /general/specialty/optional**	specialty
4	**Accredited units**	
5	**Educational hours**	5 hours per week
6	**Pre-requisite requirements**	Biology, physiology, pharmacology
7	**Program offered the course**	BDS program
8	**Instruction Language**	English
9	**Date of course approval**	2021-2022

Brief Description:	During this course the students should learn and practice several aspects of Oral Medicine. This will include: 1. Ability to recognize systemic conditions that affect dental patients. 2. Recognition and diagnosis of oral soft and hard tissue changes. 3. Request the proper investigation procedures needed for the patient based on the oral and systemic findings. 4. Non-surgical management and treatment of patients with oral soft and hard tissue changes. 5. Patient referral procedures and dental report writing. 6. Develop the student's skills in the non-surgical management of the full range of oral diseases as well as for the care of medically compromised patients in hospital and non-hospital settings.
Textbooks required for this Course:	Book Title & ISBN: 1- Burket's Oral Medicine: Diagnosis and Treatment. Lynch, Brightman, Greenberg.9th edition. Lippincott-Raven pub. Philadelphia 1997. ISBN 0-39751242-2 2- Medical problems in Dentistry. C Scully, R A Cawson. 5th ed. Elsevier Churchill Livingston pub. London 2005. ISBN 0-443-10145-0.
Course Duration	**3 hours** per week (**lectures**) An additional **2 hours** of **clinical training** per week is expected during this course.
Delivery	• Lectures hall • Clinic for teaching (adequately equipped and required material) • Audiovisual data/ data show • Computer/laptop
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: : 1 Determine the presentation, investigation, interpretation of pathology reports and principles of management of diseases of the oral mucosa includes the salivary glands. 2 Describe systemic diseases with oral manifestation. 3 Describe systemic diseases those may affect dental treatment. 4 Describe infectious diseases that are of importance to dentistry. 5 Recognize variations in normal oral facial structures and the presence of disease. 6 Establish a diagnosis and formulate a plan of action (including dental treatment modifications and necessary medical referrals). 7 Diagnose and treat the common mucosal diseases. 8 Fill in special investigation request form for patients.
Course Assessments	**Midterm Assessment** Marks total out of [30] marks **Final Examination** Final Written Examination out of 60 marks Final Oral Examination out of 20 marks Clinical examination out of 60 marks

	Thus the evaluation of student will be out of TOTAL [200 MARKS] for both third and fourth dental year **Reset Examination** Reset Written Examination Reset Oral Examination Clinical exam.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Clinical aspects of orofacial pain
Session 2 (Week 2)	Orofacial aspects of immunological disorders • General basics of immunological diseases • Immune deficiency disorders • Hypersensitivity reactions
Session 3 (Week 3)	• Autoimmunity and autoimmune disease • Disease with possible immune pathogenesis • Some clinical aspects of immune pathogenesis
Session 4 (Week 4)	Differential diagnosis of white lesions of oral mucosa
Session 5 (Week 5)	Vesiculobullous disease
Session 6 (Week 6)	Oral ulceration
Session 7 (Week 7)	Dental management of medically compromised patients: • Neurological diseases
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Dental management of medically compromised patients: • Cardiovascular disorders • Respiratory diseases
Session 10 (Week 10)	Dental management of medically compromised patients: • Endocrine disorders
Session 11 (Week 11)	Dental management of medically compromised patients: • Gastrointestinal disorders
Session 12 (Week 12)	Dental management of medically compromised patients: • Renal disease • Connective tissue disorders
Session 13 (Week 13)	Disease of the blood and blood forming organs: • Erythrocytes disorders
Session 14 (Week 14)	Disease of the blood and blood forming organs: • Leukocytes disorders
Session 15 (Week 15)	Disease of the blood and blood forming organs: • Platelets and other bleeding and coagulation disorders
Session 16 (Week 16)	Infectious diseases: • Specific bacterial infection in orofacial region • Oral Fungal infection
Session 17 (Week 17)	Infectious diseases:

	• Viral infection of orofacial region
Session 18 (Week 18)	Infectious diseases: • Viral hepatitis and cross infection control
Session 19 (Week 19)	Infectious diseases: • Oral manifestation of HIV
Session 20 (Week 20)	• Drug induced lesions of the oral mucosa • Disorders of the tongue • Dental implication of pregnancy
Session 21 (Week 21)	Diseases of the lips Oral cancer
Session 22 (Week 22)	Pigmented lesions of oral mucosa
Session 23 (Week 23)	Drugs and therapeutics in oral medicine
Session 24 (Week 24)	Management of medical emergencies in dental clinic
Session 25 (Week 25)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

B.D.M. Program

1	**Course name**	B.D.S Program
2	**Course Code**	404
3	**Course type: /general/specialty/optional**	**Specialty**
4	**Accredited units**	3 units
5	**Educational hours**	Lecture: (2 hours/week) Practical: (2hours/week)

6	**Pre-requisite requirements**	
7	**Program offered the course**	Fixed prosthodontics department Fourth year
8	**Instruction Language**	English
9	**Date of course approval**	2020/2021

Brief Description:	This course will provide students with a fundamental understanding and defines deeply the factors that influence treatment plan, treats patients biologically and esthetically in need of fixed prosthodontics; so that all functional and mechanical requirements are met, Describes the ability to perform a preparation for full coverage restoration.
Textbooks requiredfor this Course:	Book Title & ISBN: • Shillingburg HT, Hobo s, Whitsett LD, Jacobi R,Brackett SE, editors. Preparation for extensively damaged teeth. In: fundamentals of fixed prosthodontics. 3rd ed. Chicago: Quintessence; 1997. Additional Resources: • Rosenstiel, SF; Land, MF; and Fujimoto, J. Contemporary fixed prosthodontics. 4th ed. St Louis: Mosby 2006. • Ronald E. Goldstein. Esthetics in dentistry. 2nd ed. B.C. Decker Inc,1998 • Bernard G N Smith and Leslie C Howe. Planning and making crowns and bridges. 4th ed. Informa healthcare 2007. • Galip curel. The Science and Art of Porcelain Laminate Veneers: Quintessence,2003. • R W Wassel, A W G Walls, J G Steele and F. S. A. Nohl. A clinical guide to crowns and other extra coronal restorations. British DentalJournal 2002. Additional textbooks, handouts, and web links may be used in this course at the discretion of your instructor.
Course Duration	Lecture: (2hours/week) Practical: (2 hours/week) Total: (4 hours for weeks)
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation, Laboratory experiments.....etc.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. The information presented in this course is necessary to complete the curriculum, treat patients who require crown, post-core and (conventional or implant supported) FPDs. Also, this course aims to be a knowledgeable dentist regardless of what you do after graduation. 2. The readings and lectures in this course will provide a base of knowledge that students can use in the practical work, and might be needed to aid in diagnosis, treatment planning and overcome some problems encountered in clinical and laboratory work. 3. This course covers periodontal, biological, and esthetic considerations in fixed prosthodontics.

Course Assessments	Assignment 1: 60% (30% 3rd year + 25% 4th year+ Periodic evaluation for student work in the lab: 5 % 4th year), Practical exam: 40%, Final Exam: 80% , oral exam: 20%
	A 60% is required for a pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course. Instructors are encouraged to use and design any assignment that may be beneficial to the student-learning outcome.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1) (Week 2)	Biological and periodontal considerations. • To comprehend the knowledge gained in the subject starting a- case selection, b- tooth preparation, • Biologic considerations affecting future dental Health. • Biologic consideration of temporary crown and bridges. • Biologic and aspects of the pontic design. • All factors affect the health of the oral tissues which include: • Periodontal goals • To evaluate and communicate periodontal risks prior to prosthodontic rehabilitation. • To describe and understand the treatment options/decisions for tooth replacement in periodontally compromised dentitions. • To understand the principles of restoration design on the periodontal health • To understand and describe the stages of crown lengthening
Session 2 (Week 3)	Resin bonded fixed partial denture. • To know the drawback of conventional fixed prosthesis over RBB. • To understand the advantages, disadvantages, indications, contraindications • To know the different type of RBB and the different design. • To learn the preparation and cementation procedure and to determine the factors of RBB failure.
Session 3 (Week 4)	Esthetic bonding laminate veneer • To know different types, indications, contraindications, and methods for fabrication of laminate veneers.
Session 4 (Week 5)	Esthetic considerations in fixed prosthodontics • To make the student understand the Esthetic fundamental principles • To study and describe Important factors effect on the smile. • To evaluate common esthetic problems and to get idea about management of esthetics problems.
Session 5 (Week 6)	Color science and shade selection. • To study effect of light on the color/Description of light/Quality of light. • To understand Perception of tooth image/description of color/ Perception of color and what Factors affecting color perception.

	• To learn and understand Color measuring instruments used for shade selection.
Session 6 (Week 7) (Week 8)	All ceramic restorations (Advanced Ceramic). • To understand the difference between the dental porcelain and ceramic , different strengthening ceramic procedures, classification and to know an example each type
Session 7 (Week 9)	Checking, verification, care and maintenance of fixed restoration. • To study the procedure steps of Checking, and to understand how to manage the metal substructure of PFM before facing fabrication for crowns and bridges.
Session 8 (Week 10)	Midterm Exam
Session 9 (Week 11) (Week 12)	Implant retained prosthesis. • To know what the implant/ its component is/ different classification of implant system. • To understand mean of osteointegration and how to achieve goodosteointegration. • To describe and understand the different steps of implanttreatment. • To understand the preoperative preparation of implant site. • To know the different types of implant surgery. • To learn the criteria of successful implant. • To understand the different way of fixed prosthetic part construction. • To learn importance of implant maintenance and recall checkup/complication of dental implant.
Session 10(Week 13)	Luting agents and cementation procedure • To know the different temporary and permanent cements used in FPD • To gain the knowledge about the different reasons preventing the seating of fixed prosthesis, their identification and correction. • To know about the trial cementation and final cementation of a fixed prosthesis.
Session 10 (Week 14) (Week 15)	Failure and repair in fixed restorations. • To determine the classification of different types of failure , diagnosis and management of the causes and the results of the failure
Session 11 (Week 16)	Advanced technique in fixed prosthodontic • To study and learn the advance technology in diagnosis and treatment for fixed prosthesis. • To know and use of CAD/CAM and Technology based shade matching • To study in detail the laser dental applications, and safety roles with laser using.
Session 16 (Week 17)	Final Exam

Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

General medicine

1	**Course name**	General medicine
2	**Course Code**	303
3	**Course type: /general/specialty/optional**	General
4	**Accredited units**	2 units
5	**Educational hours**	60 hours 30 Lectures + 30 Clinical
6	**Pre-requisite requirements**	Histology, pathology, Pharmacology and Microbiology
7	**Program offered the course**	BDS
8	**Instruction Language**	English
9	**Date of course approval**	2020/2021

Brief Description:	The goal of teaching General Medicine to BDS students is to impart knowledge about the holistic approach in the treatment
Textbooks required for this Course:	1-textbook of clinical medicine for dental students (ISBN: 9788178556178, 9788178556178) 2. Lecture hand notes
Course Duration	30 hours- lecture 30 hours –practical

Delivery	1- Lectures 2- Clinical sessions 3- Seminars
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. Describe physiology and pathology of different organs and organ systems. 2. Manage common disorders. 3. Identify common medical emergencies and their management. 4. Take history and do general and systemic examination. 5. Interpret reports of common laboratory investigations. 6. Effectively communicate with compassion and empathy.
Course Assessments	1. Assessment exam (MCQ).....(20 marks) 2. Final exam (MCQ).....(30 marks) 3. Oral exam .....(20 marks) 4. Clinical exam..... (30 marks)
Content Breakdown Topical Coverage	Includes all parts will discussed with the students overall the year as described in sessions below:
Session 1 (Week 1)	Aim of Medicine: Purpose, Scope, Definitions, Epidemiology, Etiology, Pathogenesis, Pathology, Symptomatology, Treatment, Management, Prophylaxis, Prognosis
Session 2 (Week 2)	Rheumatic fever and valvular heart disease
Session 3 (Week 3)	1. Heart failure 2. hypertension
Session 4 (Week 4)	1. Adrenocortical disease and management of patient with steroid 2. Chronic kidney disease
Session 5 (Week 5)	1. Infective endocarditis 2. Coronary artery disease
Session 6 (Week 6)	1. Asthma and COPD 2. Pneumonia
Session 7 (Week 7)	1. Cardiac arrhythmia 2. Chronic liver disease
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Anemia Leukemia and lymphoma
Session 10 (Week 10)	Diabetes mellitus and hypoglycemia
Session 11 (Week 11)	Anticoagulant and antiplatelet and bleeding disorder
Session 12 (Week 12)	1. Tuberculosis 2. Viral hepatitis and HIV infection
Session 13 (Week 13)	1. Cardiovascular disease 2. Seizure and epilepsy
Session 14 (Week 14)	1. Headache and facial pain 2. Health care associated pain

Session 15 (Week 15)	Rheumatic systemic disease
Session 16 (Week 16)	1. Chronic kidney disease 2. Allergy and anaphylaxis
Session 17 (Week 17)	Final Exam
Attendance Expectations	Students are expected to dress appropriately and must be in accordance with the faculty's dress code policy.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Oral Diagnosis

1	**Course name**	Oral Diagnosis
2	**Course Code**	BD 406
3	**Course type: /general/specialty/optional**	specialty
4	**Accredited units**	
5	**Educational hours**	3 hours per week
6	**Pre-requisite requirements**	Biology, anatomy, physiology
7	**Program offered the course**	BDS program
8	**Instruction Language**	English
9	**Date of course approval**	2021-2022
Brief Description:	This course prepares the students for handling patients in the clinic, thorough history taking, clinical examination both extra and intra oral as general assessment of the patient conditions. The primary course includes different laboratory investigations and their applications in the field of dentistry, together with handling of medically involved patients. The course also prepares students to formulate and rationalize a preliminary treatment planning for their patients. The lectures will be reinforced with demonstration and clinical training.	

Textbooks required for this Course:	Book Title & ISBN: • Differential diagnosis of Oral and Maxillofacial Lesions. N Wood and P Goaz. 5th edit. Mosby. 1997. ISBN 0-8151-9432-3. • Oral Diagnosis. D. Kerr, M. Ash and H. Millard. (6th edition). Darlene Warfel. Mosby Co. St. Louis, USA. 1983. • Principles of Oral Diagnosis. Gary C. Coleman, John F. Nelson. Mosby. Latest edition.
Course Duration	3 hours per week
Delivery	• Lectures hall • Clinic for teaching (adequately equipped and required material) • Audiovisual data/ data show • Computer/laptop
Course Objectives:	**Knowledge and understanding** By the end of this course the student should be able to: 1. Explains the fundamental nature of diagnostic method and techniques of collecting diagnostic information. 2. Addresses the evaluation and assessment of diagnostic information. 3. Recognize the concepts of differential diagnosis 4. Discuss the principle of formulating the treatment plan. 5. State the basic principle of consultation, referral and documentation of the finding. 6. Determine dental problems and the principals involved in the diagnosis of such problems **Intellectual skills** By the end of this course the student should be able to: 1. Integrate the results obtained from history, clinical examination, and investigation data into meaningful diagnostic formulation, focusing on interpretation of laboratory diagnostic tests and reports. 2. Combine clinical and investigational data with evidence-based knowledge and skill of deductive reasoning for clinical problem solving. 3. Assemble all relevant factors in the analysis of a patient's presenting problem in order to formulate a rational treatment plan for each patent according to their needs. **Subject specific skills:** By the end of this course the student should be able to:
	1. Collecting diagnostic information by history and clinical examination and interpret the findings and organize appropriate further investigations. 2. Writing professional consultation and referring letters. 3. Apply the appropriate investigations for the different oral problems. 4. Give differential diagnosis for a given disease.
Course Assessments	The Oral Diagnosis is to be examined with the Oral radiology (3rd year). Marks are to be added to O. Medicine and O. Radiology 4th year course.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Introduction into the course and importance of oral diagnosis.
Session 2 (Week 2)	Principle of history taking.
Session 3 (Week 3)	Importance of medical history and systemic review.

Session 4 (Week 4)	Principles and methods of physical examination. Extraoral examination. Intraoral examination.
Session 5 (Week 5)	The concept of differential diagnosis and establishment of diagnosis.
Session 6 (Week 6)	Special tests and investigations and their interpretations.
Session 7 (Week 7)	Principle of formulating treatment plan. Consultations, referral, and documentation of findings.
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Principle of diagnosis of dental caries and other tooth anomalies. Diagnosis of gingival and periodontal diseases.
Session 10 (Week 10)	Principle of perception and transmission of orofacial pain.
Session 11 (Week 11)	Differential diagnosis of pain of dental and periodontal origin
Session 12 (Week 12)	Differential diagnosis of white lesions of oral mucosa
Session 13 (Week 13)	Fungal infections of oral mucosa
Session 14 (Week 14)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Oral Radiology

1	**Course name**	Oral Radiology
2	**Course Code**	BD 406
3	**Course type: /general/specialty/optional**	**specialty**
4	**Accredited units**	
5	**Educational hours**	3 hours per week

6	**Pre-requisite requirements**	Biology, anatomy, chemistry, biology.
7	**Program offered the course**	BDS program
8	**Instruction Language**	English
9	**Date of course approval**	2021-2022

Brief Description	• It provides the basic background of physics required to explain x-ray production. • It provides a basic background of radiation biology so that the undergraduate student will be able to protect him/herself, the patient and other personnel from ionizing radiation. • It teaches the undergraduate students to prescribe, take and process appropriate intraoral periapical (IOPA) radiographs. • The contribution of oral radiology supports the undergraduate student in deriving diagnoses by interpreting and relating findings from the history, clinical and radiographic examinations, as well as other investigations. • Deriving a fine diagnosis helps the undergraduate student in treatment planning and patient management.
Textbooks required for this Course	Book Title & ISBN: • White & Pharoah, Oral Radiology: Principles and Interpretation, 5th edition. • Haring & Jansen, Dental Radiography: Principles and Techniques, 2nd edition.
Course Duration	3 hours per week
Delivery	• well-equipped lecture room • Intra oral x-ray machine • Lead barriers • Processing unit and processing solutions • Dark room • X-ray films and films holding devices • View boxes



Course Objectives	Upon completion of this course, the student will have reliably demonstrated the ability to: • Identify the component parts of the x-ray machine and describe the production of x-ray • Describe the nature of ionizing radiation, its interaction with issues and the hazards of ionizing radiation • Classify different types of x-ray films used in dentistry. • Describe film composition and latent image formation. • List the basic ingredients of the developer and fixer solutions and discussthe steps of film processing. • Identify the errors in IOPA radiographs. • State the basic principles and indications of IOPA: Paralleling and Bisecting-Angle techniques. • State the indications of the occlusal x-ray examination and the localization techniques: (the buccal object rule and the right-angle technique). • Identify tooth structure and normal maxillary and mandibular anatomical • landmarks as radiolucent or radiopaque structures.
Course Assessments	The Oral Radiology part is to be examined with the Oral Diagnosis course (3rd year). Marks are to be added to O. Medicine and O. Radiology 4th year course.
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Radiation Physics
Session 2 (Week 2)	Radiation Biology.
Session 3 (Week 3)	Radiation protection
Session 4 (Week 4)	Dental films.
Session 5 (Week 5)	Dental film Processing.
Session 6 (Week 6)	Intraoral Radiographic Technique.
Session 7 (Week 7)	Radiographic Image Characteristics.
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Radiographic Errors.
Session 10 (Week 10)	Normal Radiographic anatomy.
Session 11 (Week 11)	Dental Caries.
Session 12 (Week 12)	Periapical and inflammatory lesions.
Session 13 (Week 13)	Periodontal Diseases.
Session 14 (Week 14)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.

Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Oral pathology

1	**Course name**	Oral pathology
2	**Course Code**	BD 301
3	**Course type: /general/specialty/optional**	specialty
4	**Accredited units**	
5	**Educational hours**	5 hours for 1 weeks
6	**Pre-requisite requirements**	Biology, Histology, Physiology, chemistry
7	**Program offered the course**	BDS program
8	**Instruction Language**	English
9	**Date of course approval**	2021-2022

Brief Description:

The overall aims of this course:

- To provide adequate knowledge of anomalies, lesions and diseases affecting the orofacial region and the importance of etiology and pathogenesis in oral disease.
- To develop knowledge and understanding of the structural and functional alterations (Histopathology) of the soft and hard tissues with reference to dental/oral related disease.
- The primary aim is for students to understand the principles and patho-mechanisms underlying pathology in oral tissues, jaws and salivary glands.
- To enable the students to diagnose different diseases using clinical microscopic features as well as biochemical and other analytic methods.
- To provide the student with the knowledge about the pathology and complications of the different diseases.

Textbooks required for this Course:	Book Title & ISBN: **1.** Soames J.V and Southam J.C. Oral Pathology,4th ed(2005). **2.** Regezi JA, Sciubba JJ and Jordan RCK; Oral pathology: Clinical pathologic correlation,5th ed **3.** Neville BW, Damm DD, Allen CM and Bouquot JE: Oral & maxillofacial pathology, 2nd ed(2005). **4.** Cawson R. A. Odell, E. W. Essentials of oral pathology and oral medicine ,8th ed(2008). Handouts, and web links may be used in this course at the discretion of our instructor.
Course Duration	Total 51 hours An additional 2 hours of laboratory work per week is expected during this course.
Delivery	• Lectures- illustrated with cases, photos, and diagrams. • Practical sessions: Laboratory for teaching Adequately equipped lab and required material
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: By the end of the course, student should be able to: . Understand the classification of the most common orofacial diseases. . Discuss and describe clinical, radiological, and microscopic features of many diseases and tumors. . Describe the morphologic (gross & microscope) change occurring as the result of such disease process in (soft & hard tissue). . Describe mechanisms of disease (pathogenesis), such as (infection, genetic disorders, disorders of immune system, neoplasm and metabolic disorders).and explain how the disease progress. . Interpret the most important signs and symptoms of oral diseases and tumors.
	. Drawing and labelling the microscopic features of the most common oral diseases and benign and malignant tumors . Analyze the radiologic and laboratory report covering the most common neoplasm and diseases . Identify precancerous and early cancerous lesions. (Early recognize diseases of particular risk). . Correlate the clinical and histopathological features of the oral diseases and tumors. . differentiate between benign and malignant neoplasms . Detect any anomaly/abnormality at an early stage. . Formulate differential diagnosis of various lesions encountered in the dental practice. . Examine the microscopic criteria of altered structures of the oral cavitythat are seen in various disease and conditions. . Elicit a diagnosis based on the histopathologic features. . Predict the prognosis of the disease. . Make a report commenting on a pathological specimen.

Course Assessments	• **Assessment Examination** Written examination out of 30 marks • **Final Examination** Final Written Examination out of 40 marks Final Oral Examination out of 10 marks Practical examination out of 20 marks Thus, the evaluation of student will be out of TOTAL [100 MARKS] • **Reset Examination** Reset Written Examination Reset Oral Examination practical exam
Content Breakdown Topical Coverage	Content Breakdown Topical Coverage
Session 1 (Week 1)	Topics to be covered in the session (week) • Introduction to the course of oral pathology • Dental caries: Etiology of dental caries Classification of dental cariesPathology of dental caries
Session 2 (Week 2)	Topics to be covered in the session (week) Acquired Non-carious lesions of the teeth: • Regressive and reparative process. • Abrasion, Erosion, Attrition. Resorption of teeth, Hypercementosis.
Session 3 (Week 3)	Topics to be covered in the session (week) • Developmental disturbances of oral and para-oral tissues: Teeth, jaws, palate, lips, tongue, gingiva, oral mucosa, and salivary glands
Session 4 (Week 4)	Disease of pulp and periapical tissue:
	• Pulpitis: classification, causes (etiology), clinical features, histopathology and sequela. • Periapical periodontitis: classification, causes, clinical features, histopathology, and complication.
Session 5 (Week 5)	Spread of dental infection: • Cellulitis • Osteomyelitis • Dry socket • Healing of extraction socket
Session 6 (Week 6)	Cysts of jaws and oral soft tissues: • Definition, formation, expansion, and classification. • Odontogenic cysts and non-odontogenic cyst. • Cysts of the soft tissues
Session 7 (Week 7)	Oral ulcerative & vesiculobullous lesions: • Definition, classification, histopathology, and etiology. • Traumatic ulceration. • Recurrent aphthous stomatitis. • Vesiculobullous diseases

Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Oral white and red lesions: • Definitions, causes, and classification. • Histopathology features. • Hereditary conditions. • Traumatic keratosis • Dermatological.
Session 10 (Week 10)	Pre-cancerous lesions and conditions: • Leukoplakia and erythroplakia. • Carcinoma in situ. • Oral epithelial atrophy. • Chronic hyperplastic candidiasis
Session 11 (Week 11)	Hamartomatous (Tumor-like) lesions and Common benign, malignant non-odontogenic tumors (including pigmented lesions)
Session 12 (Week 12)	Odontogenic tumors: • Classification • Odontomes • Benign and malignant odontogenic tumors
Session 13 (Week 13)	Diseases of Salivary glands: • Developmental anomalies. • Sialadenitis. • Obstructive and traumatic lesions • Sjogren's syndrome
Session 14 (Week 14)	Tumors of salivary glands: • Classification • Adenomas • Carcinomas
Session 15 (Week 15)	Infections of Oral and Paraoral Tissues: 1. Bacteria 2. Fungal 3. Viral 4. Human immunodeficiency virus (HIV)
Session 16(Week 16)	Diseases of Bone (oral Aspects): • Osteogenesis imperfecta, osteoporosis, osteopetrosis, Cleidocranial dysplasia, Rickets and osteomalacia. • Paget's disease • Fibrous dysplasia and cherubism
Session 17(Week 17)	Oral aspects of metabolic diseases:
Session 18 (Week 18)	Final Exam
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supportedwith a doctor's note.

Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric,computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

General surgery

1	**Course name**	General surgery
2	**Course Code**	302
3	**Course type: /general/specialty/optional**	General
4	**Accredited units**	3 units
5	**Educational hours**	60 hours 30 Lectures + 30 Clinical
6	**Pre-requisite requirements**	Anatomy, Pathology,
7	**Program offered the course**	BDS
8	**Instruction Language**	English
9	**Date of course approval**	2020/2021

Brief Description:	This course will cover the basic surgical principles in the diagnosis and treatment for some conditions. The concentration will be on surgical conditions commonly met in the field of Dentistry.
Textbooks required for this Course:	1. Williams, N., & O'Connell, P. R. (2013). Bailey & Love's Short Practice of Surgery 26th edition. 2. Browse's Introduction to The Symptoms and Signs of Surgical Disease 4th edition. 3. Lecture notes
Course Duration	45 hours in total (30 hours lectures and 15 hours clinical sessions) 3 hours/week (2 hours theoretical and 1 hour clinical)
Delivery	1- Lectures 2- Clinical sessions 3- Seminars

Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. Recognize the pathophysiology and the clinical details of the surgical problems discussed and reflect their knowledge of the principles of dentistry to aid in the management of surgical patients. 2. Demonstrate the ability to deal with patients who have general or special surgical problems. 3. Differentiate between the various surgical entities and the special needs of each. This will include general surgeries, surgeries for brain and spine, orthopedics, and trauma, burns and plastic surgeries, and pediatric surgery. 4. Realize and perform the proper management of the surgical patients in the light of the presenting complaints and needs. 5. Take care of the certain precautions regarding every surgical problem. 6. Work cooperatively and have good communication with the surgical team to offer the optimum care and management of the surgical patients.
Course Assessments	1. Assessment exam (MCQ)..... (20 marks) 2. Final exam (MCQ) ..... (30 marks) 3. Oral exam ..... (20 marks) 4. Clinical exam... ..... (30 marks)
Content Breakdown Topical Coverage	Includes all parts will discussed with the students overall the year as described in sessions below:
Session 1 (Week 1)	Introduction to Surgical patient & history and physical examination
Session 2 (Week 2)	Head Injury
Session 3 (Week 3)	Hemorrhage & Hemostasis
Session 4 (Week 4)	Shock & Blood transfusion
Session 5 (Week 5)	ENT surgery
Session 6 (Week 6)	Surgical site infection
Session 7 (Week 7)	Antibiotics and antiseptics
Session 8 (Week 8)	Midterm Exam
Session 9 (Week 9)	Neck swelling
Session 10 (Week 10)	Wounds, healing and tissue repair
Session 11 (Week 11)	Salivary gland disorder
Session 12 (Week 12)	Principles of preoperative preparation
Session 13 (Week 13)	Burns
Session 14 (Week 14)	Sinus, ulcer and fistula
Session 15 (Week 15)	Postoperative care and complications
Session 16 (Week 16)	Nutrition and fluid therapy
Session 17 (Week 17)	Final Exam
Attendance Expectations	Students are expected to dress appropriately and must be in accordance with the faculty's dress code policy.

Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

B.D.S Program

1	**Course name**	B.D.S Program
2	**Course Code**	404
3	**Course type: /general/specialty/optional**	**Specialty**
4	**Accredited units**	3 units
5	**Educational hours**	36 week Lecture: (2 hours/week) Practical: (2 hours/week)
6	**Pre-requisite requirements**	
7	**Program offered the course**	Fixed prosthodontics department Third year
8	**Instruction Language**	English
9	**Date of course approval**	2020/2021
Brief Description:	This course will provide students with a fundamental understanding and describes deeply the factors that influence treatment plan, Illustrates the ability to perform a preparation for full coverage restoration, determines what's meant by occlusion, its importance in fixed partial-denture work and describes all clinical steps for construction of crowns.	

القرارات

Textbooks requiredfor this Course:	Book Title & ISBN: • Shillingburg HT, Hobo s, Whitsett LD, Jacobi R, Brackett SE, editors. Preparation for extensively damaged teeth. In: fundamentals offixed prosthodontics. 3rd ed. Chicago: Quintessence; 1997. Additional Resources: • Rosenstiel, SF; Land, MF; and Fujimoto, J. Contemporary fixed prosthodontics. 4th ed. St Louis: Mosby-yearbook; 2006. • R W Wassel, A W G Walls, J G Steele and F. S. A. Nohl. A clinical guide to crowns and other extracoronal restorations. British Dental Journal2002. • Bernard G N Smith and Leslie C Howe. Planning and making crowns and bridges. 4th ed. Informa healthcare 2007. Additional textbooks, handouts, and web links may be used in this course at the discretion of your instructor.
Course Duration	Lecture: (2hours/week) Practical: (2hours/week) Total: (4 hours for weeks)
Delivery	Lecture-based, Group interaction and discussion, self-directed activities, active participation, Laboratory experiments.....etc.
Course Objectives:	Upon completion of this course, the student will have reliably demonstrated the ability to: 1. How to obtain and record a proper case history, perform an appropriate examination, and collect the findings to aid in diagnosis and treatment planning. 2. The information presented in this course is necessary to complete the curriculum, treat patients who require crown, post-core or FPDs. Also this course aims to be a knowledgeable dentist regardless of what you do after graduation.
Course Assessments	Assignment 1: 25% Periodic evaluation for student work in the lab Assessments: 5 %Final Exam: ....% A 60% is required for a pass in this course. Homework & Assignments Students will be required to read chapters in their textbook, handouts, and any other material necessary for the course. Instructors are encouraged to use and design any assignment that may be beneficial to the student-learning outcome.
Content Breakdown	Content Breakdown Topical Coverage

Topical Coverage	
Session 1 (Week 1) (Week 2)	History taking ,clinical examination and Treatment planning. . • To collect the data through history, examination and diagnostic aids. • To understand the local and general factors indicating or contraindicating fixed prosthesis. • To make a diagnosis and draw up a comprehensive treatment plan. • To achieve a healthy oral environment before fixed prosthodontic treatment through various treatment procedure. • To comprehend the knowledge gained in the subject to rationalize the suitability of a case to design a fixed prosthesis. • Give a clinical situation, be able to plan and execute the management of the case.
Session 2 (Week 3) (Week 4)	Restoration of endodontically treated teeth (Post and core). • Introduction to the different methods of restoring endodontically treated anterior teeth. • Students are expected to satisfactorily restore an endodontically treated teeth on the typodonts using prefabricated or custom-made post and core by direct or indirect technique.
Session 3 (Week 5)	Fluid control and tissue displacement • To know and learn the methods and procedure of controlling fluid (moisture) and the enlargement of the gingival sulcus for successful impression making.
Session 4 (Week 6)	Final impression materials and methods • To know the requirements that need in impression materials. • To understand and classify the various impression materials used in FPD and the different impressiion techniques. • To learn the requirments and types of impression trays that used in the impression. • To know how evaluate and disinfect the impresion.
Session 5 (Week 7)	Provisional restoration. • To know what the provisional restoration is. • To understand the biological requirments. • To learn the different types of provisional restoration. • To learn the Procedure of fabricating provisional crowns and bridges by direct and/or indirect method.
Session 6 (Week 8)	Fundamentals of occlusion and Inter-occlusal records. • To understand the basic mandibular movements, the cocepts of occlusion and normal versus pathologic occlusion. • To understand the need for harmonious occlusion during fixed prosthodontic therapy and to recognize the presence of and the treatment of the occlusal errors in fixed partial denture.
Session 7 (Week 9)	Pontic designs • To study the aim of pontic and what is the important

	considerations related to pontic (biological, mechanical and esthatic). • To learn the requirments of ideal pontics and their classification. • To disscus the factors affecting pontic design
Session 8 (Week 10)	Midterm Exam
Session 9 (Week 11) **Session 14 (Week 12)**	Connectors and soldering procedure • To define the connector and to recognize different types of connectors • To understand connector design. • To know soldering procedure. Metal ceramic design • To understand and know the different mechanisms for bonding and preparing PFM, metal substructure design, Porcelain layer/ application, designing, staining, glazing, and polishing of metal ceramic restoration.
Session 16 (Week 16)	**Final Exam**
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed. Absences are permitted only for medical reasons and must be supported with a doctor's note.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric, computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.

Preventive Dentistry

1	**Course name**	Preventive Dentistry
2	**Course Code**	304
3	**Course type: /general/specialty/optional**	Specialty
4	**Accredited units**	NA
5	**Educational hours**	30 hours
6	**Pre-requisite requirements**	NA

7	**Program offered the course**	Dental Public Health and Preventive Dentistry
8	**Instruction Language**	English
9	**Date of course approval**	NA

Brief Description:	To provide dental students with an understanding of the concepts, principles and methods of oral disease prevention in preventive dentistry.
Textbooks required for this Course:	• Primary Preventive Dentistry, (2004) 6th edition by: Norman O. Harris and Franklin Garcia-Godoy Publisher: Pearson Prentice Hall, New Jersey. • Prevention of oral disease (2003) 4th edition. By: John J. Murray, James G. Steele and June H. Nunn. Oxford University Press. • Guidelines for Infection Control in Dental Health-Care Settings— 2003. MMWR 2003; Vol. 52, No. RR-17. 9. Murray JJ, Nunn JH, Steele JG. • The Prevention of Oral Diseases. 4th ed. Oxford University Press; 2003. P. 115. 10. Gandabra BK, Truelove EL. • Diagnosis and management of dental erosion. J Contemporary Dental Practice 1999;1: 1-17. 11. Dental Erosion: Etiology, Diagnosis and Prevention. Yan-Fang Ren, 2011
Course Duration	30 hours
Delivery	Lecture-based, Demonstration of some preventive procedures will be conducted under staff member's supervision - requirements for cases, discussion sessions at sections, clinical training at the department's clinic.
Course Objectives:	At the end of the course, the students should understand the following: 1. Basic concepts and principles of oral disease prevention. 2. Factors involved in the etiology of oral diseases. 3. Modifying factors in oral diseases. 4. Different measures for prevention of the common dental diseases (dental caries and periodontal diseases). 5. Different measures for prevention of other oral diseases (oral cancer, non-carious lesions).
Session 1 (Week 1)	Concepts of preventive dentistry Objectives: • Definition of prevention. • Criteria of disease Prevention • Principles of Preventive Dentistry • Levels of prevention. • Approaches of preventive Dentistry
Session 2 (Week 2)	Infection control Objectives: • Definition of Infection Control • Why Is Infection Control Important in Dentistry? • Chain of infection • Modes of Disease Transmission • Infection transmission in dental clinic • Elements of Standard Precautions: • Immunization • Patient screening • Hand washing • Barrier techniques • Needle and sharp instrument safety • Instruments sterilization and disinfection • Surfaces disinfection • Dental waste management
Session 3 (Week 3)	Tools measurement (Indices) Objectives:

	• Prevalence, incidence, rate. • Definition of indices • Ideal proprieties of indices • Types of indices • Uses of indices • Dental caries indices • Plaque indices • Oral hygiene indices • Gingival indices • Periodontal indices • Other types of indices
Session 4 (Week 4)	Plaque formation and characteristics Objectives: • Definition of dental plaque • How to identify of dental plaque clinically • Disclosing agents • Formation of dental plaque biofilms • Structure and composition of plaque • Plaque retention factors • Plaque and caries formation • Calculus and its relationship with plaque.
Session 5 (Week 5,6)	Dental caries Objectives: • Definition of dental caries • Risk factor of dental cries • Mechanism of dental caries • Role of diet in dental caries • Carbohydrates and Dental Caries (sugar) • Role of microorganism • Role of tooth morphology and composition • Role of saliva • The Basic Stephan Curve • Stephan Curve: Clinical Relevance • Protective Factors and Caries. • Root caries • Early childhood caries • Caries risk assessment • Prevention of dental caries
Session 6 (Week 7)	Plaque control measures Objectives: Introduction of Plaque Control Methods of plaque control: A-Mechanical plaque control 1) Tooth brushing 2) Interdental oral hygiene aids: 3) Adjunctive aids B-Chemical Plaque Control
	Midterm exam
Session 7 (Week 8)	Pit and fissure sealants Objectives: • Definition of sealant • Classification of sea • Purpose of Sealant • Criteria of the Ideal Sealant • Indications for Use • Contraindications • Procedure of Pit and Fissure Sealant Application • Evaluation of sealant • Sealant Retention • Newer trends in sealant
Session 8 (Week 9)	Fluorides in dentistry Objectives: • Introduction • The discovery of the action of fluoride. • Effect of fluoride in caries prevention • Methods of F delivery • Topically applied fluoride: professionally applied self-applied • Systemically administered fluoride: Water fluoridation other vehicles for administering F • Fluoride toxicity ⎫ Lethal and safe doses of F ⎫ Acute and chronic F toxicity ⎫ Dental fluorosis ⎫ Dental fluorosis-specific indices
Session 9 (Week 10)	Nutrition and oral health status Objectives: • Definition of diet and nutrition • Classification and effects of nutrition on oral health • Food with high cariogenic potential • Food with low cariogenic potential • Sweetener's substitutes

Session 10 (Week 11)	Dietary counseling • Basic recommendations in diet modification. • Dietary counseling • Diet record • Instructions for patient • Diet record analysis • Giving advice.
Session 11 (Week 12)	Prevention of non-carious lesions Objectives: • Definitions of non-carious lesions • Types of non-carious lesions: • Attrition • Abrasion • Erosion • Abfraction • Clinical Appearance of tooth wear • Risk Factors of tooth wear • Diagnosis of tooth wear • Prevention oftooth wear
Session 12 (Week 13)	Atraumatic Restorative Treatment (ART) Objectives: The concept of ART • Indications and contraindications for ART • The used materials and instruments • The procedure of ART • Advantages and limitations of using ART • How to monitor ART and manage its failure
Session 13 (Week 14)	Prevention of dental trauma Objectives: • Introduction • Causes of dental trauma • Prevention of dental trauma • Primary Prevention ⎫ Playground Surfaces ⎫ Outdoor Home Playground Safety Checklist (CPSC) ⎫ Mouth guards ⎫ Types of Mouth guard • Secondary Prevention ⎫ First Aid for an Avulsed Tooth • Tertiary prevention.
Session 14 (Week 15)	Prevention of oral cancer Objectives: • What is the oral Cancer? • Distribution of oral cancer • Oral cancer warning signs • Risk factors of oral cancer • Early Detection & Prevention • The Importance of Early Detection • Levels of Prevention of Oral Cancer • Public Health Approaches for Prevention of Oral Cancer.
	Final exam
Course assessment	30% assessment exam 70% final (50% written, 20% clinic)
Attendance Expectations	Students are expected to attend every session of class, arriving on time, returning from breaks promptly and remaining until class is dismissed.
Generic Skills	The faculty is committed to ensuring that students have the full range of knowledge and skills required for full participation in all aspects of their lives, including skills enabling them to be life-long learners. To ensure graduates have this preparation, such generic skills as literacy and numeric,computer, interpersonal communications, and critical thinking skills will be embedded in all courses.
Course Change	Information contained in this course outline is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational employment and marketing needs. The instructor will endeavor to provide notice of changes to students as soon as possible. Timetable may also be revised.