



FAKULTI PERGIGIAN
Faculty of Dentistry

UNDERGRADUATE GUIDEBOOK

Bachelor of Dental Surgery (BDS)
SESSION 2023/2024



TABLE OF CONTENT

<i>PART 1 – STUDENT HANDBOOK</i>	<i>3</i>
MESSAGE FROM THE DEAN	4
MESSAGE FROM THE DEPUTY DEAN (UNDERGRADUATE)	5
EDUCATION GOAL OF UNIVERSITI MALAYA	6
VISIONS AND MISSION	7
HISTORY OF THE FACULTY OF DENTISTRY	8
ORGANIZATION CHART	11
MANAGEMENT	12
ADMINISTRATIVE STAFF OF THE DEAN'S OFFICE	14
OFFICE OF THE DEPUTY DEAN (CLINICAL SERVICES)	16
DENTAL RESEARCH MANAGEMENT UNIT (DRMU)	19
DEPARTMENT OF COMMUNITY ORAL HEALTH & CLINICAL PREVENTION	30
DEPARTMENT OF ORAL AND CRANIOFACIAL SCIENCES	32
DEPARTMENTS FROM THE FACULTY OF MEDICINE	34
PROGRAMME EDUCATION OBJECTIVES (PEO)	43
PROGRAMME LEARNING OUTCOMES (PLO)	44
ACADEMIC CALENDAR SESSION 2023/2024	45
LIST OF BDS CORE COURSES	47
LIST OF UNIVERSITY COURSES	50
UM STUDENT DRESS CODE	51
DENTAL STUDENTS PROFESSIONAL IMAGE AND GUIDELINES FOR CLINICAL STUDENTS	52
BDS CURRICULUM (2015)	60
ASSESSMENT & EXAMINATION	61
AWARDS/PRIZES	64
REGISTRATION AS A DENTAL SURGEON WITH THE MALAYSIAN DENTAL COUNCIL	68
PROFESSIONAL QUALIFYING EXAMINATION (PQE)	69
<i>PART 2 – RULES AND REGULATIONS UNIVERSITI MALAYA (BACHELOR OF DENTAL SURGERY) 2021</i>	<i>71</i>
<i>PART 3 -COURSE PRO FORMA</i>	<i>72</i>
<i>PART 4 - SENARAI BUKU TEKS/RUJUKAN DALAM PRO FORMA</i>	<i>162</i>

PART 1

STUDENT

HANDBOOK



MESSAGE FROM THE DEAN



Dear UNIVERSITI MALAYA DENTAL STUDENTS,

Congratulations on becoming a student at Universiti Malaya. This is the moment that you, your family, and all of us have been waiting for - the beginning of your journey as a dental student at Universiti Malaya.

Our university is the oldest in the country and has a long history of excellence. Similarly, our dental faculty is the oldest dental faculty in the country. For more than a quarter of a century, our faculty served as the only dental institution in the country. Today, you will find that many of our alumni have become dental leaders in the country, top-notch clinicians as well as highly reputed academicians both locally and abroad.

As you would have recalled, you had to undergo examinations at national and institutional levels, take extra-curricular activities as well as undergo multiple mini-interviews in order to compete with other applicants and be accepted into this faculty. As incredibly gifted students, you did extremely well and we know you will continue to take our dental faculty to even greater levels of prominence and excellence.

We trust that you will find studying at the Faculty of Dentistry, Universiti Malaya as professionally engaging and personally rewarding. We encourage you to explore Universiti Malaya and take advantage of all that this place can offer. In this handbook, you will find information and guidance to help you excel as our dental student. Continue to plan well so that you can take part in the university students' activities without neglecting your academic performance. Only then will you be able to achieve success in the course, and at the same time enjoy the experience of university campus life.

You might be aware that the standing of our university is amongst the world's best. We are proud to have high caliber academic staff, dedicated support staff, and comprehensive facilities. Throughout these years, we have not only impacted the country and the region, but also the world, therefore our tagline is simply "Serving the nation and impacting the world". Each member of our varsity embraces the same core values known as "POISE" which denotes Passion, Oneness, Integrity, Sincerity, and Empathy.

We wish you all the best!

Professor Dr Zamri Radzi

Dean

Faculty of Dentistry

Universiti Malaya

Chairperson

Deans Dental Council

MESSAGE FROM THE DEPUTY DEAN (UNDERGRADUATE)



I am delighted to welcome you to the Faculty of Dentistry, Universiti Malaya.

Founded in 1971, this school of Dentistry is dedicated to train the nation's future dentists who will provide excellent and respectful dental care professionally, ethically and safely. Our dedicated faculty members will help you acquire the knowledge and skills you will need.

We are very excited to see another cohort of students to begin their journey to be trained as dental professionals. You will begin your journey at Balai Ungku Aziz where you will spend the first two years in the pre-clinical courses. This will prepare you with the required knowledge and skills before you begin seeing patients. When you begin the clinical years, you will continue your training to be the best dental professional that will be able to serve the community and be proud to be called a graduate from Universiti Malaya.

University experience is a big change from high school and pre-university. Our most important priority is protecting the health and safety of the dental school community. Dental school training can be overwhelming at times; your weekdays at

the school will start at 8 am and ends at 5 pm and you will have endless deadlines and assessments. Each student is assigned an academic mentor, so please do discuss your concerns and problems with them if you need to. I am certain you will leave here as the skilled and compassionate dentist you dream of becoming.

All the best!

Associate Professor Dr. Wan Nurazreena Wan Hassan
Deputy Dean (Undergraduate)
Faculty of Dentistry
Universiti Malaya

EDUCATION GOAL OF UNIVERSITI MALAYA

Graduates of Universiti Malaya will be able to:

- Demonstrate knowledge and skills in their field of study, appropriate research and professional practices, and the processes of critical thinking, creative thinking, and problem solving.
- Use effective methods including contemporary technology to manage information, to achieve diverse professional goals aligned with professional standards and make decisions based on appropriate data and information.
- Engage in continuous self-improvement and professional growth, support the professional development of others, and display positive leadership and professional behaviors and disposition for effective practice.
- Communicate effectively with other professionals, and the community, and project a coherent vision of social responsibilities.
- Appreciate and continue to be guided by the University's core values of integrity, respect, academic freedom, open-mindedness, accountability, professionalism, meritocracy, teamwork, creativity and social responsibility

VISION AND MISSION



Vision

A global university impacting the world.

Mission

Pushing the boundaries of knowledge and nurturing aspiring leaders.

Core Values

Passion
Oneness
Integrity
Sincerity
Empathy

Tagline

Serving the Nation. Impacting the World.



FAKULTI PERGIGIAN
Faculty of Dentistry

Vision

To be a center of excellence in oral health science education and research and to function as a catalyst to promote learning and research in dentistry.

Mission

To be a premier faculty in providing a high standard of training and research, to produce caring dental professionals with a holistic approach.

HISTORY OF THE FACULTY OF DENTISTRY

Timeline of Establishment

Early days

Universiti Malaya (UM) was founded on 28 September 1905 in Singapore as the King Edward VII College of Medicine. On 8th October 1949, it became the UM with the merger of the King Edward VII College of Medicine and Raffles College (founded in 1928). The Dental Department at the King Edward VII College of Medicine was officially opened in 1927.

Between 1949-1961, the Department of Dentistry, UM was in Singapore. A total of 163 students graduated with BDS (Malaya) degrees when UM was in Singapore. Some of them later became the lecturers, Head of Departments and Professors at the new Dental Faculty, UM in Kuala Lumpur.

19th April 1961

Paragraph 32 of the Report of the Board of Studies on the establishment of the Medical Faculty in Kuala Lumpur agreed that ultimately the Course in Dentistry should be provided in Kuala Lumpur.

7th November 1966

The paper submitted by the Dean of Medicine at the request of the Director of Medical Services, Ministry of Health, gave the Recommendation to the Senate that a Board of Studies should be appointed to consider the feasibility of establishing a dental programme in UM Kuala Lumpur.

14th December 1966

Dean and Members of the Medical Faculty at the Faculty meeting agreed a Board of studies for the dental programme should be set up (Min.99(2)).

30th December 1966

The Senate of the University of Malaya made the decision to appoint a Board of Studies on Dentistry in accordance with Statute XII University of Malaya on the establishment of the Board of Studies. The Board, which was subsequently established, recommended the establishment of a Dental Faculty in Kuala Lumpur - Senate Minute 497 (2).

10th May 1967

Report Course in Dentistry FMC-575/66 by Dean, Faculty of Medicine, UM.

24th May 1967

The first Meeting of the Board of Studies on Dentistry Chaired by The Vice Chancellor, Professor J H E Griffiths (on secondment from University of Oxford). Attended by Dean Faculty of Medicine, Director of Medical Services, Dr Ibrahim Mohd Yassin and other members of the board.

5th June 1967

Working Paper on Dental School at University of Malaya Kuala Lumpur by the Dental Association.

22nd June 1967

Second Meeting of the Board of Studies on Dentistry Chaired by The Vice Chancellor, Professor J H E Griffiths Attended by Professor A S Prophet and Board Members.

8th June 1967

Report on Dental Education in Malaysia (157/69) by Professor A S Prophet Professor of Dental Surgery, & Director of Dental Studies University College Hospital Medical School, University of London.

4th July 1967

Third Meeting of the Board of Studies on Dentistry Chaired by The Vice Chancellor, Professor J H E Griffiths Attended by Professor A S Prophet and Board Members.

15th April 1970: Fourth Meeting of the Board of Studies on Dentistry

24th April 1970: Fifth Meeting of the Board of Studies on Dentistry

8th May 1970: Sixth Meeting of the Board of Studies on Dentistry

27th May 1970: Seventh Meeting of the Board of Studies on Dentistry

10th July 1970: Memorandum on Faculty of Dentistry, UM by UM Medical Society

14th July 1970: Eighth Meeting of the Board of Studies on Dentistry

1970

Report of the Board of Studies based on all the reports and meetings agreed for the establishment of Faculty of Dentistry in the University of Malaya.

November 1971

An Administrative Dean, Professor Dr Ibrahim Yassin Al-Haj was appointed and entrusted with the responsibility for the planning and the development of the new Dental Faculty in Kuala Lumpur.

May 1972

The first batch of thirty-two students was admitted to the first-year dental programme.

Nov 1973

The foundation stone was laid by The Honourable Deputy Prime Minister, Dato' Hussein Onn.

19th May 1975

The Dental Faculty Complex was officiated by The Honourable Prime Minister, Tun Abdul Razak bin Dato' Hussein.

1994

Started a Postgraduate Master of Community Dentistry Programme.

1995

Launched Orofacial Pain Unit & the Unit of Implantology.

1996

Started a Master of Dental Science Programme.

1998

The General Dental Council (GDC) of Great Britain recognized the BDS degree of UM.

ORGANIZATION CHART

2022-2024



**UNIVERSITI
MALAYA**

Faculty of Dentistry



**Professor
Dr. Zamri Radzi**
Dean



MANAGEMENT

Dean	: Professor Dr. Zamri Radzi DDS (Ind), MDentSci in Orthodontics (Leeds), FFDRCSI (Ireland), MOrthRCS (England), MOrthRCS (Edinburgh), PhD (Oxford)
Deputy Deans:	
Undergraduate	: Assoc Prof Dr. Wan Nurazreena Wan Hassan BDS (Wales), MScD in Orthodontics (Distinction) (Cardiff), MFDS RCSEd, MOrth RCSEd, FDS RCSEd, PhD (Malaya)
Postgraduate	: Prof Dr. Siti Adibah Othman BDS (Malaya), DDS in Orthodontics (Bristol), MOrth RCSEd, MOrthRCS (England) <i>Ad Eundem</i>
Development	: Prof Dr. Zamros Yuzadi Mohd. Yusof BDS (QUB), MSc (London), DDPHRSC (England), PhD (Distinction) (Malaya)
Research	: Prof Dr. Nor Adinar Baharuddin BDS (Adelaide), MDSc (Malaya), DClinDent in Periodontology (Otago)
Clinical Services	: Assoc Prof Dr. Siti Mazlipah Ismail BDS (Malaya), FDSRCS (England)
Student Affair	: Assoc Prof Dr. Zuraiza Mohamad Zaini BDS (Malaya), MDSc Oral Path Oral Med (Queensland), MRACDS Oral Med (Aust), PhD (London)
Value Creation and Enterprise	: Prof Dr. Wan Himratul Aznita Wan Harun BSc (Hons) (Malaya), MSc (Distinction) (Malaya), PhD (Malaya)

Manager (Administration)	: Mr. Rozaini Abdul Rahim BPM (Hons)(UUM)
Assistant Registrar	: Ms. Nur Amalina Dayana Abd Aziz B.Ed (TESL) (UM), M.Ed (English Language Education) (UM)
	Ms. Nurmarziana Aizie Mohd Yazid B.L.I.S (UiTM)
	Mr. Ahmad Azwan Azman B. Med Sci (Hons) (MSU)
	Ms. Nursyafiqah Abd Malek B.S.Chem (Malaya)
	Ms. Naquiah Adibah Othman BSc (Hons) Biology (UiTM)
	Ms. Nur Zulaikha Zaki B.Ed (TESL) (Hons) (Malaya), M.Ed. Mgt (Malaya)
Senior Finance Officer	: Ms. Asiah Ishak B.Acc (Hons) (IIUM)

ADMINISTRATIVE STAFF OF THE DEAN'S OFFICE

Manager (Administration)	: Mr. Rozaini Abdul Rahim
Assistant Registrar	: Ms. Nur Amalina Dayana Abd Aziz
	: Ms. Naquiah Adibah Othman
Senior Finance Officer	: Ms. Asiah Ishak
Assistant Administration Officer	: Mr. Hafizan Pal @ Affal
Assistant Accountant	: Ms. Suhaila Nordin
Office Secretary	: Ms. Kartini Hamid Ms. Nik Zainab Hj Nik Hussin Ms. Noor Amaliena Azmi
Assistant Office Secretary	: Ms. Ain Farhani Mahmad
Admin Assistant (Finance)	: Ms. Norshida Abdul Manan Ms. Nor Afizasazura Shihabudin Ms. Al Ardiyanah Abang Mohktar
Admin Assistant (P/O)	: Ms. Norhayati Mat Ms. Norhafidzan Ahmad Mr. Mohd Afif Abu Bakar Ms. Nur Syahirah Adnan Mr. Mohamad Iqbal Mohd Illias Mr. Luqman Alhakim Abdull Ms. Rafidah Mohd Noli Ms. Nas Unaizah Tarmizi Ms. Siti Nor Hardiana Muhammad Zainalid Ms. Norashikin Che Man
Assistant Engineer	: Mr. Mohd Ferdaus Ramli Mr. Mohd Firdaus Mejat Osman Mr. Khairul Anuar Abdul Karim Mr. Hafiz Azizi Kumaruzaman Mr. Kugen A/L Doraisamy Ms. Nur Murnizawati Wan Mohamad
Driver	: Mr. Noor Haffizal Rashid Mr. Rosli Taha Mr. Mohamad Hanif Hamiruddin
Operation Assistant	: Mr. Mohd Faizul Mat Jusoh Mr. Rafie Ibrahim
Admin Assistant (Supervisor)	: Mr. Abdull Zainol
Public Assistant	: Mr. Izzul Arif Rosli Mr. Mohamed Hafizee Mohd Zulkarnain

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Deputy Dean (Clinical and Services)	: Associate Professor Dr. Siti Mazlipah Ismail BDS (Malaya), FDSRCS (England)
Assistant Registrar	: Mr. Ahmad Azwan Azman
Assistant Project Officer	: Mejar (B) Faizal Abdul Rahman
Dental Officer	: Dr. Farah Afiqah Mohd Fauzi Dr. Melisa Mohd Osman Dr. Mah Ming Kit Dr. Foo Kent Room Dr. Nur Falihin Soehairq Kamal Nurzaman Dr. Nur Hafizah Saffian
Nursing Supervisor	: Ms. Hasdharina Johari Ms. Zairin Syahrazad Zaini
Nurse	: Ms. Nursyahida Ab Rahman Ms. Rosfaiza Mohamed Yusof Ms. Chan Ai Fen Ms. Nurul Asma Khairi Mr. Alif Noor Arif Kamarudin Ms. Nor Faridah Abdullah Ms. Noramira Md Isa Ms. Nordiana Abdul Wahab Ms. Norfarahidayu Mohd Yunos
Dental Technologist	: Ms. Rozlina Mohd Zain Ms. Hafizah Othman Ms. Halimah Musa Mr. Mohd. Najib Mohd Ibrahim Mr. Mohd Uqbah Ramli Ms. Norismaliza Kamarudin Ms. Nur Nadiyah Mohd. Rasit Ms. Nurul Fauzani Mohd Hussin Mr. Rosli Bidin Ms. Salmi Slim Ms. Shubashini A/P Devaraj Ms. Suthashini A/P Doraisamy Ms. Yeneynoorain Mazlan Mr. Divagar A/L Kaveri Mr. Haripin Hassan Mr. Mohamad Hishammudin Mahazer Mr. Mohd Arif Azahar Mr. Raja Muhammad Muzami Raja Jallaludin Ms. Siti Dalila Ibrahim Ms. Yong Kar Yee Mr. Mohd Rushdan Ashraf Mohd Isha Ms. Sarmiira a/p Salvan
Medical Lab Technologist	: Mr. Md Rafiki Rezali Ms. Rusnani Kamal Ms. Faraliza Alias Ms. Intan Syaheera Abdul Hamid Mr. Mohd Anuar Zainon Ms. Nor Hasilah Mokhtar

	Mr. Richee Rudeen Yasib Mr. Farid Aizat Mohamed Mr. Mohd Khairil Roslan Mr. Muhammad Yazid Yahaya Ms. Shahira Omar Ms. Norhazwana Sudin
Radiographer	: Ms. Suziela Zamshi Mr. Kamarol Addly Mat Nor Ms. Siti Nur Farah Mohd Rowi Mr. Muhammad Zulhairee Mat Zin Ms. Khairun Izzati Zainal Ashar
Dental Therapist	: Ms. Nurulhuda Kassim Ms. Siti Nurhaslinda Abdul Kadir Ms. Siti Zaleha Musa Ms. Norhayati Nafisah Ibrahim Ms. Maizatul Najmeeah Che Mat
Assistant Pharmaceutical Officer	: Ms. Norzinie Maslina Abdull Razab
Dental Surgery Assistant	: Ms. Che Nurulhana Che Ismail Ms. Fadhilah Mohamed Nawi Ms. Foziana Abdullah Mr. Hafizul Hafiz Mat Rashid Ms. Hartini Shaupi Ms. Jamilah Nakman Ms. Khairunnisa Shamsudin Ms. Kumutha A/P Balachanram Ms. Maizura Osman Ms. Mardiana Jalaludin Ms. Maziah Abdullah Ms. Mazne Mahat Mr. Md Azman Md Nor Mr. Muhamad Nizam Rahman Ms. Nor Azizan Mohamed Zawawi Ms. Nor Azrina Isa Ms. Norazlina Baharom Ms. Norhasidah Idris Ms. Norhayati Adris Ms. Norhayati Ismail Ms. Puteri Maisatulsima Megat Musa Ms. Rosmira Azreen Mohd Rosli Ms. Sharida Mat Ms. Zarina Jasmin Abdul Khalid Mr. Abdul Solllahudin Abdul Rahman Ms. Aida Natasha Abdul Rasid Ms. Dhanusha A/P Balakrishnan Mr. Donny Hii Sieng Onn Ms. Hafiza Zohri Mr. Junaidy Ahmad Ariff Ms. Kartina Sinsam Ms. Monica Marsya Manuel Arrogancia Ms. Najwa Mohd Ms. Nik Nurfatiha Qisha Nik Muda Ms. Nor Aishah Kassim Ms. Nur Faranida Mustafa Ms. Nur Hanani Roslan Ms. Nurhusna Yusup Ms. Nur' Ain Syamima Khairil Anwar

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 Mr. Aleef Helmie Musa
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 Mr. Mohd Khairul Izwan Zainol Abidin
 Mr. Muhamad Hafiz Muhamed Shahardin
 Mr. Mohammad Khairi Mohd Yusoff
 Mr. Nik Izuan Nik Kamal Fikry
 Mr. Nor Azlan Dahlim
 Ms. Nuri Kesuma Urus
 Ms. Patimah Mat Gita
 Mr. Pubalan A/L Kasevan
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 Mr. Wan Zulkifli Wan Ahmad
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 Ms. Siti Zaleha Awang
 Ms. Azizah Mat Yasin
 Ms. Nithya Chandrasegaran
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Science Officer	: Ms. Intan Suhana Hamid Ms. Junaida @ Maimunah Hassan Basari Ms. Helen Ng Lee Ching
Research Officer	: Dr. Wan Maria Nabilah Wan Abdul Ghani
Assistant Science Officer	: Ms. Nurul Khairiyah Abas
Medical Lab Technologist	: Ms. Nur' Atikah Sabri
Administrative Assistant	: Ms. Meena A/P Subramaniam
Operation Assistant	: Mr. Azrar Haqkimi Abd Rashid

Biomaterial Research Lab (BRL)

Makmal Penyelidikan Biobahan

Science Officer	: Ms. Helen Ng Lee Ching
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Craniofacial & Molecular Biology Research Lab (CMBRL)

Makmal Penyelidikan Kraniofasial & Biologi Molekul

Science Officer	: Ms. Junaida @ Maimunah Hassan Basari
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Research & Diagnostic Laboratory (RDL)

Makmal Diagnostik & Penyelidikan

Medical Lab Technologist	: Ms. Nur' Atikah Sabri
--------------------------	-------------------------

Restorative and Regenerative Research Unit (UPRR)

Unit Penyelidikan Restoratif dan Regeneratif

Assistant Science Officer	: Ms. Nurul Khairiyah Abas
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Thermal Characterization Research Lab (TCRL)

Makmal Pencirian Termal

Assistant Science Officer	: Ms. Nurul Khairiyah Abas
---------------------------	----------------------------

Oral Cancer Research & Coordinating Centre (OCRCC)

Pusat Penyelidikan dan Penyelarasan Kanser Mulut

Research Officer	: Dr. Wan Nabillah Wan Abd Ghani
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DEPARTMENT OF RESTORATIVE DENTISTRY

Head of Department :	Assoc. Prof. Dr Syarida Hasnur Safii DDS (UKM), MClinDent (Periodontology) (London), MRDRCS (Edinburgh), PhD (Otago) https://umexpert.um.edu.my/syarida-safii	Periodontology
Professors :	Prof. Dr. Nor Adinar Baharuddin BDS (Adelaide), MDSc (Malaya), DClinDent Periodontology (Otago) https://umexpert.um.edu.my/noradinar	Periodontology
	Prof. Dr. Rathna Devi A/P A. Vaithilingam BDS (Malaya), MClinDent (Periodontology) (Malaya) https://umexpert.um.edu.my/rathna	Periodontology
	Prof. Dr. Aruni Tilakaratne DIP. COUNSELLING (Counselling) (Sri Lanka), BDS (Peradeniya), PhD (Philosophy) (Peradeniya) https://umexpert.um.edu.my/aruniti	Periodontology
	Prof. Dr. Chai Wen Lin BDS (Malaya), MDSc (Malaya), FDSRCS (England), PhD (Sheffield) https://umexpert.um.edu.my/chaiwl	Operative
	Prof. Dr. Noor Hayaty Abu Kasim BDS (Malaya), MSc (London), PhD (Newcastle) https://umexpert.um.edu.my/nhayaty	Operative
Associate Professors:	Assoc. Prof. Dr. Noor Azlin Yahya BDS (Otago), MDenSci (Leeds), DipTrans (DBP) https://umexpert.um.edu.my/nazlin	Operative
	Assoc. Prof. Dr. Azwatee Abdul Aziz BDS (Adelaide), MClinDent in Prosthodontics (London), PhD (Malaya), MDTFEd RCSEd https://umexpert.um.edu.my/azwatee	Operative
	Assoc. Prof. Dr. Eshamsul Sulaiman BDS (Belfast), MFDRCS (Ireland), MClinDent (Prosthodontics with Distinction) (London) https://umexpert.um.edu.my/eshamar	Prosthodontics

	Assoc. Prof. Dr. Jacob John Chiremel Chandy BDS (Tamil Nadu), MDS (Prosthodontic) (Kuvempu), MMedEdu (Malaya) https://umexpert.um.edu.my/drjacob	Prosthodontics
	Assoc. Prof. Dr. Norasmatul Akma Ahmad BDS (Malaya), MClintDent in Prosthodontics (Distinction) (London), MRDRCS (Edinburgh) https://umexpert.um.edu.my/akma	Prosthodontics
	Assoc. Prof. Dr. Ros Anita Omar BDS (Malaya), MDS (Malaya), PhD (London) https://umexpert.um.edu.my/anitaomar	Prosthodontics
	Assoc. Prof. Dr. Nosizana Mohd Salleh DDS (Tokyo), PhD (Tokyo) https://umexpert.um.edu.my/nosizana	Prosthodontics
	Assoc. Prof. Dr. Lim Ghee Seong BDS (Malaya), MClintDent in Restorative Dentistry (Distinction) (Newcastle), ITF (Prosthodontics) RCS (England) https://umexpert.um.edu.my/g-s-lim	Prosthodontics
	Assoc. Prof. Dr. Zeti Adura Che Ab Aziz BDS (Otago), MClintDent (Otago) https://umexpert.um.edu.my/zetiaziz	Endodontics
	Assoc. Prof. Dr. Mariam Abdullah BDS (Otago), MClintDent in Endodontology (London) https://umexpert.um.edu.my/mariamabd	Endodontics
	Assoc. Prof. Dr. Hany Mohamed Aly Ahmed BDS (Egypt), HDD (Endodontics) (Egypt), PhD (Universiti Sains Malaysia), MDTFEd RCSEd, FPFA (USA), FADI (USA) https://umexpert.um.edu.my/hanyendodontist	Endodontics
Senior Lecturers :	Dr. Cheah Chia Wei BDS (Malaya), MClintDent (Periodontology) (Malaya), PhD (Malaya) https://umexpert.um.edu.my/chiawei	Periodontology
	Dr. Muralithran Govindan Kutty BSc (Hons) (UKM), MSc (Materials Science) (Warwick), PhD in Materials Science & Engineering (Idaho) https://umexpert.um.edu.my/muralithran	Operative
	Dr. Siti Fauzza Ahmad BDS (Malaya), MSc (Med.Sci) (Fixed and Removable Prosthodontics) (Glasgow), PhD (Malaya) https://umexpert.um.edu.my/sfauzza	Prosthodontics

Lecturers:	Dr. Selva Malar A/P Munusamy BDS (Malaya), MSc (Clinical Dentistry) (Fixed & Removable Prosthodontics) (Manchester), MFDSRCS (Edinburgh) https://umexpert.um.edu.my/selvamalar	Prosthodontics
	Dr. Zubaidah Zanul Abidin BDS (UKM), MClintDent (Restorative Dentistry in Prosthetic Dentistry) (Malaya) https://umexpert.um.edu.my/zubaidah_zanulabidin	Prosthodontics
	Dr. Noor Hayati Azami BDS (Malaya), MClintDent (Restorative Dentistry in Conservative Dentistry) (Malaya) https://umexpert.um.edu.my/nhayatiazami	Endodontics
	Dr. Nora Sakina Mohd Noor BDS (Malaya), MclintDent (Restorative Dentistry in Conservative Dentistry) (Malaya) https://umexpert.um.edu.my/norasakina	Endodontics
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	Dr. Muhammad Kamil Hassan BDS (Ire), MFDS (Edin), MSc. (Ire), FFDRCSI (Ire) https://umexpert.um.edu.my/kamil-hassank	OMFS
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1. OMFS: Oral and Maxillofacial Surgery;
2. OMOP: Oral Medicine & Oral Pathology

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	Assoc. Prof. Dr. Wong Kah Hui BSc (UM), MSc (UM), PhD (UM) https://umexpert.um.edu.my/wkahhui	Cerebellar ataxia, complementary and alternative medicines, functional food
Senior Lecturers :	Dr. Rasheeda Mohd Zamin MBBS (IIUM), MSc (UWA), PhD (UWA) https://umexpert.um.edu.my/sheedazamin	Cardiovascular research and imaging, Placenta study and Health
	Dr. Siti Rosmani Md. Zin @ Zakaria MD (UPM), MMedSc(Anat)(UM), PhD (UM) https://umexpert.um.edu.my/siti_rosmani	Clinical Anatomy and Histology
	Dr. Muhamad Alfakri Mat Noh MBBS (UM), MMedSc (UKM), PhD (Bristol) https://umexpert.um.edu.my/alfakri	Tobacco control, peripheral nerve regeneration, macrophage polarisation & stress enzyme
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Professors :	<p>Prof. Dr. Fung Shin Yee BSc (UM), MMedSc (UM), PhD (UM) https://umexpert.um.edu.my/syfung</p> <p>Prof. Dr. Puteri Shafinaz Akmar Abdul Rahman BSc (UM), MSc (UM), PhD (UM) https://umexpert.um.edu.my/terisar</p>	<p>Natural Products, Biochemistry, Mycotherapy</p> <p>Biomarker Discovery, Proteomics</p>
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Senior Lecturers :	<p>Dr. Ain Zubaidah Ayob BSc (Honours) (Nottingham), MSc (Nottingham), PhD (UM) https://umexpert.um.edu.my/ainzubaidah</p> <p>Dr. Jaime Jacqueline Jayapalan BHSc (USM), MMedSc (UM), PhD (UM) https://umexpert.um.edu.my/jaime_jacklyn</p> <p>Dr. Kong Kin Weng BSc (UPM), MSc (UPM), PhD (UM) https://umexpert.um.edu.my/kongkm</p> <p>Dr. Leo Bey Fen BEng (Mats) (UM), PhD (ICL) https://umexpert.um.edu.my/beyfenleo</p> <p>Dr. Kong Boon Hong BSc (UM), MSc (UM), PhD (UM) https://umexpert.um.edu.my/kongbh</p>	<p>Cancer Stem Cells, Molecular Biology</p> <p>Clinical Proteomics</p> <p>Nutritional Food Sciences, Functional Foods</p> <p>Nanotechnology for Diagnostic and Therapy, Nanotoxicity Evaluation</p> <p>Natural Products, Drug Discovery</p>

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Regenerative
Medicine and Stem
Cell, Cancer
Research

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(C) DEPARTMENT OF PHYSIOLOGY

Head of Department :	Assoc. Prof. Dr. Naguib Salleh MBBS (UM), PhD (KCL,UK), PGCAP (Medical Education) https://umexpert.um.edu.my/naguibsalleh	Endocrine and Reproductive Physiology
Associate Professors :	Assoc. Prof. Dr. Hoe See Ziau BSc.(Hons)(UM), MSc.(UM), PhD(UM) https://umexpert.um.edu.my/hoesz	Cardiovascular Physiology, Natural Products, Neurogenic Hypertension
Lecturers :	Dr. Raja Elina Afzan Raja Ahmad MBChB (Otago), MMedSc (UM), PhD (Liv,UK) https://umexpert.um.edu.my/rajaelinaafzan	Musculoskeletal Physiology, Regenerative Medicine
	Dr. Kumar Selvakumaran MBBS(UM), PhD (Aus) https://umexpert.um.edu.my/kumarselvakumaran	Auditory Physiology, Psychoacoustics
	Dr. Maziah Mat Rosly MBBS(India), PhD (Aus) https://umexpert.um.edu.my/maziahmr	Exercise Physiology
	Dr. Kyaimon Myint MBBS (Myanmar), MMedSc(Myanmar), Diploma Medical Education (Myanmar), PhD(UM) https://umexpert.um.edu.my/kyaimon	Neuro-Immuno-Endocrinology, Reproductive Physiology
	Dr. Lit Lei Cheng BSc.(Hons)(UM), MMedsc(UM), DIC & PhD(UK) https://umexpert.um.edu.my/leicheng	Cellular and Molecular Physiology
	Dr. Giribabu Nelli M.Sc(India), PhD(India) https://umexpert.um.edu.my/neli-giribabu	Reproductive Endocrinology, Metabolic Disorders, Natural Products
	Dr. Krishnamurthy A/L Genasan BSc.(UM), MSc.(UM), PhD(UM-Liverpool), PhD (Liverpool) https://umexpert.um.edu.my/krishna_82	Immunology, Tissue Engineering & Regenerative Medicine
	Dr. Wan Nur Asyiqin Rasidi BSc.(Hons)(UM), MMedSc(UM), PhD(UM) https://umexpert.um.edu.my/asyiqinrasidi	Auditory Physiology

Honorary
Professors:

Prof. Dr. Ruby Husain
BSc.(Hons)(UK), PhD(UK)
<https://umexpert.um.edu.my/ruby>

Exercise Physiology

Prof. Dr. Cheng Hwee Ming
BSc(UK), PhD(UK)
<https://umexpert.um.edu.my/chenghm>

Immuno-physiology

Supporting
administrative staff:

Ms. Suraini Pairan

Supporting general
staff:

Mr. Shahrul Bin Ibrahim
Mr. Sazuan Amni Asfindi

(D) DEPARTMENT OF PHARMACOLOGY

Head of Department :	Prof. Dr. Zamri Chik BSc(UM), MSc(UM), PhD(London) https://umexpert.um.edu.my/zamrichik	Clinical Pharmacology, Drug delivery, Traditional Medicine and Natural Products
Professors :	<p>Prof. Dr. Wong Pooi Fong BBioMedSc (UM), DipTropMed (Nagasaki), MMedSc (UM), PhD (UM) https://umexpert.um.edu.my/wongpf</p> <p>Prof. Dr. Ivy Chung B.Eng (Japan), PhD (Suny), Postdoc (Harvard) https://umexpert.um.edu.my/ivychung</p>	<p>Aging, Molecular Pharmacology, Cellular Senescence</p> <p>Molecular Pharmacology</p>
Associate Professors :	<p>Prof. Dr. Kiew Lik Voon BBioMedSc (UM), MScPharm (USM), PhD(UM) https://umexpert.um.edu.my/lvkiew</p> <p>Assoc. Prof. Dr. Dharmani Devi Murugan BBioMedSc (UM), PhD(UM) https://umexpert.um.edu.my/dharmani79</p> <p>Assoc. Prof. Dr. Tan Choo Hock MBBS (UM), PhD (UM), MD (Medicine)(UM) https://umexpert.um.edu.my/tanch</p>	<p>Medical Biotechnology</p> <p>Molecular Pharmacology, Vascular Pharmacology, Traditional Medicine and Natural Products</p> <p>Molecular and Functional Toxinology, Medical Pharmacology, Prescribing Skills Training</p>
Lecturers :	<p>Dr. Elsa Haniffah Mejia Mohamed MMedSc (UM), MD (UM) https://umexpert.um.edu.my/elsa</p> <p>Dr. Nur Lisa Zaharan BMedSci (Ireland), MB BCh (Ireland), Diploma in Statistics (Ireland), PhD (Ireland). https://umexpert.um.edu.my/nurlisazaharan</p> <p>Dr. Shamsul Mohd Zain Shamsul Mohd Zain BBioMedSc (UM) , PhD (UM) https://umexpert.um.edu.my/shamsul</p>	<p>Pharmacology</p> <p>Clinical Pharmacology, Medical Pharmacology, Molecular Pharmacology</p> <p>Molecular Genetics, Gastroenterology, Experimental Design and Analysis</p>

Dr. Ajantha Sinniah BSc (UPM), MSc(UPM), PhD (London) https://umexpert.um.edu.my/ajantha-sinniah	Immunopharmacology
Dr. Zaridatul Aini Ibrahim B.Sc (Melbourne), PhD (Sydney) https://umexpert.um.edu.my/zaridatulaini	Molecular Pharmacology
Dr. Sharifah Zamiah Syed Abdul Kadir BBioMedSc (IIUM), MRes (UK), PhD (UK) https://umexpert.um.edu.my/zamiah-syed	Systems Physiology
Dr. Muhammad Farid Nazer Muhammad Faruqu MSc (UK), PhD (London) https://umexpert.um.edu.my/faridnazer	Nano Biologics, Vaccine Development, Biomarker Discovery

(E) DEPARTMENT OF MEDICAL MICROBIOLOGY

Head of Department :	Prof. Dr. Chan Yoke Fun BBMedSc (UM), PhD (UM) https://umexpert.um.edu.my/chanyf	Genomic and Virology
Professors :	<p>Prof. Dr. Jamal I-Ching Sam BMedSc (Nottingham), MBBS (Nottingham), MRCP(UK), MSc (London), MRCP (UK) FRCPath (UK) https://umexpert.um.edu.my/jicsam</p> <p>Prof. Dr. Rina A/P N.Karunakaran MBBS (UM), MPath (MMB) (UM), MRCPPath (UK), FRCPath (UK) https://umexpert.um.edu.my/rina_k</p> <p>Prof. Dr. Tay Sun Tee BSc(Hons)(UM), MMedSc(UM), PhD(UM) https://umexpert.um.edu.my/tayst</p>	<p>Virology and Medical Microbiology</p> <p>Bacteriology, Medical Microbiology</p> <p>Mycology, Bacteriology</p>
Associate Professors :	<p>Assoc. Prof. Dr. Chang Li Yen BSc (UPM), MSc (UPM), PhD (UM) https://umexpert.um.edu.my/changliyen</p> <p>Assoc. Prof. Dr. Nadia Atiya MB, BCh, BAO, BMedSci, (Medicine) (Ireland), MPath (Medical Microbiology)(UM) https://umexpert.um.edu.my/natia</p> <p>Assoc. Prof. Dr. Wong Won Fen BSc (UM), Master Of Life Science (Tohoku), PhD (Tohoku) https://umexpert.um.edu.my/wonfen</p> <p>Assoc. Prof. Dr. Chandramathi A/P Samudi @ Raju BSc (UM), PhD (UM) https://umexpert.um.edu.my/chandramathi</p> <p>Assoc Prof. Dr. Cindy Teh Shuan Ju BSc (UMS), MSc (UM), PhD (UM) https://umexpert.um.edu.my/cindysjteh</p> <p>Assoc. Prof. Dr. Rukumani Devi A/P Velayuthan MBBS (JNMC), MPath (UM) https://umexpert.um.edu.my/rukumani</p> <p>Assoc. Prof. Dr. Tee Kok Keng BBioMedSc (UM), MMedSc (UM), PhD (UM) https://umexpert.um.edu.my/k2tee</p>	<p>Virology, Molecular Biology</p> <p>Mycobacterial Infections, Antimicrobial Resistance, Bacteriology</p> <p>Cellular Immunology</p> <p>Cellular Immunology, Bacteriology, Virology</p> <p>Epidemiology, Urban And Rural Health, Bacteriology</p> <p>Mycology</p> <p>Virology and Genomics</p>

Senior Lecturers :	Dr. Anis Rageh Mohammed Al-Maleki BSc (Sana'a), MSc (Sana'a), PhD (UM) https://umexpert.um.edu.my/anisrageh	Microbial Systematic, Metabolic Pathways, Next- Generation Sequencing, Multiomics
	Dr. Kumutha Malar A/P Vellasamy BSc (UM), MSc (UM), PhD (UM) https://umexpert.um.edu.my/kumuthamalar	Bacteriology
	Dr. Nurhafiza Zainal BSc (UM), MRes (Imperial), PhD (NCKU), PhD (UM) https://umexpert.um.edu.my/nurhafizazainal	Medical Microbiology, Virology, Immunology
	Dr. Chin Kim Ling BBMedSc (UM), PhD (UM) https://umexpert.um.edu.my/chinkimling	Virology, Immunology
	Dr. Rafidah Lani BBMedSc (UM), MMedSc (UM), PhD (UM) https://umexpert.um.edu.my/rafidahl	Virology, Immunology
Lecturers (Clinical) :	Dr. Kartini Abdul Jabar Bachelor Degree, (Medicine and Surgery) Queens University of Belfast, MPath (UM) https://umexpert.um.edu.my/jartiniaj	Medical Microbiology
	Dr. Maria Kahar Bador Abdul Kahar MBBCH (QUB), MSCE (UK) https://umexpert.um.edu.my/mariakb	Bacteriology, Medical Microbiology
	Dr. Nuryana Idris MPath(UM) https://umexpert.um.edu.my/nuryana	Medical Microbiology
	Dr. Tang Soo Nee MD (UNIMAS), MPath (UM) https://umexpert.um.edu.my/soonee_t	Bacteriology, Medical Microbiology
	Dr. Azwani Abdullah MBBS (UM), MPath(MedMicro) (UM) https://umexpert.um.edu.my/azwani-abdullah	Medical Microbiology
Administrative Assistant :	Ms. Roziana Zainal Ms. Rose Ernalisa Hambali Mr. Ahmad Fadhlullah Hasim	

Medical	Ms. Ardalinah Hassan
Laboratory	Ms. Sharmila Devi Ramasame
Technologists :	Ms. Siti Noraisah Ahmad Nasrah
	Ms. Nur Atifah Ghazali
	Ms. Lee Jiang Lin
	Mr. Mohd Fadli Haji Yusoff
	Ms. Nurul Irma Iza Zulkaffli

(F) DEPARTMENT OF PATHOLOGY

Head of Department :	Assoc. Prof. Dr. Mun Kein Seong MBBS (UM), MPath(UM) https://umexpert.um.edu.my/ksmun	Anatomic Pathology
Professors :	Prof. Datuk Dr. Looi Lai Meng MBBS (Singapore), MPath (UM), MRCPPath (UK), MIAC, FRCPA (Aust), MD (UM), FRCPath (UK) https://umexpert.um.edu.my/looilm	Pathology, Histopathology
Associate Professors :	Assoc. Prof. Dr. T Malathi Thevarajah MBBS(Madras), MPath (UM), Subspecialization (Endocrinology)(Aus) https://umexpert.um.edu.my/tmalathi	Medical Biochemistry and Clinical Chemistry
	Assoc. Prof. Dr. Pavai Sthaneshwar B.Sc (Madras), MBBS(Madras), MD (Madras), M.ME, (Medical Education) (UM) https://umexpert.um.edu.my/pavai	Inborn Error Of Metabolism
Lecturers :	Dr. Farhi Ain Jamaluddin MBChB (UK), MASTER (Patologi) (UM) https://umexpert.um.edu.my/ainj	Chemical Pathology
	Dr. Chow Tak Kuan Advan Diploma MedSc (IMU), MB BCh BAO, (Ireland), MPath (UM) https://umexpert.um.edu.my/tkchow	Pathology
	Dr. Diana Ong Bee Lan MBBChBao (Dublin), MPath (UM) https://umexpert.um.edu.my/diana-ong	Anatomical Pathology
	Dr. Prashant Naresh Samberkar MBBS (Bombay), MD (Mumbai) https://umexpert.um.edu.my/samberkar	Forensic Pathology
	Dr. Alex Phang Kean Chang BSc (UM), Ph.D (Pathology) (UKM), MOHRE (UM) https://umexpert.um.edu.my/drphang	Pathology, Biomedicine, Bioethics
UMMC Staff :	Dr. Nazarina Abdul Rahman Dr. Mardziah Mohamad Dr. Hana Shafinaz Jamaluddin Dr. Poh Kim Yan Dr. Chiew Seow Fan	

PROGRAMME EDUCATION OBJECTIVES (PEO)

The UM Faculty of Dentistry's Programme Educational Objectives (PEO) is to produce general dental practitioners who are:

1. Knowledgeable, clinically and technically competent
2. Socially responsible
3. Able to function effectively as a member of the nation's healthcare delivery system
4. Adhere to the highest standards of professional ethics and conduct.

PROGRAMME LEARNING OUTCOMES (PLO)

PO1 - Apply scientific knowledge for the safe, effective and efficient practice of dentistry.	PO1 - Menguasai pengetahuan berasaskan kaedah saintifik untuk menjalankan pengamalan pergigian yang selamat, berkesan dan efisien.
PO2 - Practice general dentistry independently, safely and effectively with good practical, technical and clinical skills.	PO2 - Menjalankan pengamalan pergigian am (general dentistry) secara perseorangan (independently), selamat dan berkesan dengan kemahiran praktikal, amali dan klinikal yang baik.
PO3 - Engage patients and the community in making decisions about their health with emphatic social skills and social responsibility.	PO3 - Melibatkan pesakit dan komunitinya dalam membuat keputusan yang berkaitan dengan kesihatan mereka dengan menggunakan kemahiran sosial, emphati dan berteraskan tanggungjawab sosial.
PO4 - Apply professional values, attitudes, ethics and legal requirements relevant to the practice of dentistry.	PO4 - Mengaplikasikan nilai etika dan sikap yang digariskan oleh profesion pergigian dan mematuhi keperluan undang-undang yang berkaitan dengan pengamalan profesion pergigian.
PO5 - Communicate effectively with their colleagues, healthcare professionals, their patients and the community and practice effective team working and demonstrate leadership qualities.	PO5 - Berkomunikasi secara efektif dengan rakan-rakan profesional pergigian dan kesihatan, dengan pesakit dan komuniti, dan mengamalkan kerja berpasukan dan ciri-ciri kepimpinan.
PO6 - Critically appraise and utilize advances in scientific knowledge and techniques to solve problems for the benefit of patient care.	PO6 - Menilai secara kritikal dan menggunakan pengetahuan saintifik dan teknik-teknik terkini untuk menyelesaikan masalah untuk kebaikan dan kepentingan pesakit.
PO7 - Manage information; engage in lifelong learning and continuing professional development (CPD).	PO7 - Mengamalkan prinsip pembelajaran sepanjang hayat dan melibatkan diri dalam aktiviti pembangunan profesional berterusan (continuing professional development - CPD).
PO8 - Plan and manage general dental practice and community programmes by applying appropriate entrepreneurial skills to enhance the oral health status of society.	PO8 - Merancang dan menguruskan klinik pengamalan pergigian am dan program komuniti dengan semangat dan kemahiran keusahawanan untuk meningkatkan kesihatan oral masyarakat umum.

**ACADEMIC CALENDAR SESSION 2023/2024
(BACHELOR OF DENTAL SURGERY)
FACULTY OF DENTISTRY, UNIVERSITI MALAYA
PRE-CLINICAL - YEAR 1 & 2**

SEMESTER 1				
Orientation (Week of Welcome) - WOW	1 week	01.10.2023	-	08.10.2023
Lectures Semester 1.1	10 weeks	09.10.2023	-	17.12.2023
Mid Semester 1 Break	3 weeks	18.12.2023	-	07.01.2024
Lectures Semester 1.2	7 weeks	08.01.2024	-	25.02.2024
Semester 1 Break	1 week	26.02.2024	-	03.03.2024
Semester 1.2 Test	1 week	04.03.2024	-	10.03.2024
	<hr/> 23 weeks			
SEMESTER 2				
Lectures Semester 2.1	4 weeks	11.03.2024	-	07.04.2024
Mid Semester 2.1 Break	1 week	08.04.2024	-	14.04.2024
Lectures Semester 2.1	5 weeks	15.04.2024	-	19.05.2024
Mid Semester 2.1 Break	1 week	20.05.2024	-	26.05.2024
Semester 2.1 Test	1 week	27.05.2024		02.06.2024
Lectures Semester 2.2	6 weeks	03.06.2024	-	14.07.2024
Revision Week	1 week	15.07.2024	-	21.07.2024
Revision Week/ Final Examination	3 weeks	22.07.2024	-	11.08.2024
Semester Break / Supplementary Examination	7 weeks	12.08.2024	-	29.09.2024
	<hr/> 29 weeks			

- Total Teaching & Learning weeks (including Review and Examination Weeks): **39 weeks** according to the Standards and Criteria for Accreditation of Bachelor of Dental Surgery Program.
- Total Semester Break & Mid-Semester Break: **12 weeks**
- Dates are subject to Public Holidays for Kuala Lumpur

Maulidur Rasul	28 September 2023	Eidul Fitri	10 & 11 April 2024
Deepavali	12 November 2023	Labour Day	01 May 2024
Christmas Day	25 December 2023	Wesak Day	22 May 2024
New Year	01 January 2024	His Majesty's King's Birthday	03 June 2024
Thaipusam	25 January 2024	Eidul Adha	17 June 2024
Federal Territory Day	01 February 2024	Awal Muharam	07 July 2024
Chinese New Year	10 & 11 February 2024	National Day	31 August 2024
Nuzul Al-Quran	28 March 2024	Malaysia Day	16 September 2024

**ACADEMIC CALENDAR SESSION 2023/2024
(BACHELOR OF DENTAL SURGERY)
FACULTY OF DENTISTRY, UNIVERSITI MALAYA
CLINICAL - YEAR 3, 4 & 5**

SEMESTER 1				
Orientation (Week of Welcome) - WOW	1 week	01.10.2023	-	08.10.2023
Lectures Semester 1.1	10 weeks	09.10.2023	-	17.12.2023
Mid Semester 1 Break	3 weeks	18.12.2023	-	07.01.2024
Lectures Semester 1.2	7 weeks	08.01.2024	-	25.02.2024
Semester 1 Break	1 week	26.02.2024	-	03.03.2024
Semester 1.2 Test	1 week	04.03.2024	-	10.03.2024
	23 weeks			
SEMESTER 2				
Lectures Semester 2.1	4 weeks	11.03.2024	-	07.04.2024
Mid Semester 2.1 Break	1 week	08.04.2024	-	14.04.2024
Lectures Semester 2.1	5 weeks	15.04.2024	-	19.05.2024
Mid Semester 2.1 Break	1 week	20.05.2024	-	26.05.2024
Semester 2.1 Test	1 week	27.05.2024		02.06.2024
Lectures Semester 2.2	8 weeks	03.06.2024	-	28.07.2024
Revision Week	1 week	29.07.2024	-	04.08.2024
Revision Week/ Final Examination	3 weeks	05.08.2024	-	25.08.2024
Semester Break / Supplementary Examination	5 weeks	26.08.2024	-	29.09.2024
	29 weeks			

- Total Teaching & Learning weeks (including Review and Examination Weeks): **40 weeks** according to the Standards and Criteria for Accreditation of Bachelor Degree of Dental Surgery Program.
- Total Semester Break & Mid-Semester Break: **10 weeks**
- Dates are subject to Public Holidays for Kuala Lumpur

Maulidur Rasul	28 September 2023	Eidul Fitri	10 & 11 April 2024
Deepavali	12 November 2023	Labour Day	01 May 2024
Christmas Day	25 December 2023	Wesak Day	22 May 2024
New Year	01 January 2024	His Majesty's King's Birthday	03 June 2024
Thaipusam	25 January 2024	Eidul Adha	17 June 2024
Federal Territory Day	01 February 2024	Awal Muharam	07 July 2024
Chinese New Year	10 & 11 February 2024	National Day	31 August 2024
Nuzul Al-Quran	28 March 2024	Malaysia Day	16 September 2024

LIST OF BDS CORE COURSES

<u>TAHUN PERTAMA/ FIRST YEAR</u>				
NO.	COURSE CODE	NAMA KURSUS/ COURSE NAME		STUDENT LEARNING TIME
1.	DIA1001	BIOLOGI MULUT	ORAL BIOLOGY	570
2.	DIA1002	ANATOMI	ANATOMY	355
3.	DIA1003	BIOKIMIA	BIOCHEMISTRY	356
4.	DIA1004	FISIOLOGI	PHYSIOLOGY	296

<u>TAHUN KEDUA/ SECOND YEAR</u>				
NO.	COURSE CODE	NAMA KURSUS/ COURSE NAME		STUDENT LEARNING TIME
1.	DIA2001	PERGIGIAN MASYARAKAT I	COMMUNITY DENTISTRY I	54
2.	DIA2002	PENGIMEJAN MULUT & MAKSILOFASIAL I	ORAL & MAXILLOFACIAL IMAGING I	42
3.	DIA2003	BAHAN PERGIGIAN DAN TEKNOLOGI PERGIGIAN	DENTAL MATERIAL AND DENTAL TECHNOLOGY	1,170
4.	DIA2004	PATOLOGI	PATHOLOGY	190
5.	DIA2005	MIKROBIOLOGI PERUBATAN	MEDICAL MICROBIOLOGY	161
6.	DIA2006	FARMAKOLOGI	PHARMACOLOGY	228

<u>TAHUN KETIGA/ THIRD YEAR</u>				
NO.	COURSE CODE	NAMA KURSUS/ COURSE NAME		STUDENT LEARNING TIME
1.	DIA3001	PERGIGIAN MASYARAKAT II	COMMUNITY DENTISTRY II	219
2.	DIA3002	PENGIMEJAN MULUT & MAKSILOFASIAL II	ORAL & MAXILLOFACIAL IMAGING II	123
3.	DIA3003	OPERATIF & ENDODONTIK I	OPERATIVE & ENDODONTIC I	262
4.	DIA3004	PATOLOGI MULUT & PERUBATAN MULUT I	ORAL MEDICINE & ORAL PATHOLOGY I	128
5.	DIA3005	PERIODONTOLOGI I	PERIODONTOLOGY I	173
6.	DIA3006	PERGIGIAN PEDIATRIK I	PAEDIATRIC DENTISTRY I	167
7.	DIA3007	ORTODONTIK I	ORTHODONTICS I	133
8.	DIA3008	PROSTODONTIK I	PROSTHODONTICS I	233
9.	DIA3009	PEMBEDAHAN MULUT & MAKSILOFASIAL I	ORAL & MAXILLOFACIAL SURGERY I	289
10.	DIA3010	AMALAN PERGIGIAN AM I	GENERAL DENTAL PRACTICE I	243
11.	DIA3011	PENYAKIT MANUSIA (SURGERI AM)	HUMAN DISEASES (GENERAL SURGERY)	235
12.	DIA3012	PENYAKIT MANUSIA (PERUBATAN AM)	HUMAN DISEASES (GENERAL MEDICINE)	256

<u>TAHUN KEEMPAT/ FOURTH YEAR</u>				
NO.	COURSE CODE	NAMA KURSUS/ COURSE NAME		STUDENT LEARNING TIME
1.	DIA4001	PERGIGIAN MASYARAKAT III	COMMUNITY DENTISTRY III	233
2.	DIA4002	PENGIMEJAN MULUT & MAKSILOFASIAL III	ORAL & MAXILLOFACIAL IMAGING III	84
3.	DIA4003	OPERATIF & ENDODONTIK II	OPERATIVE & ENDODONTIC II	429
4.	DIA4004	PATOLOGI MULUT & PERUBATAN MULUT II	ORAL MEDICINE & ORAL PATHOLOGY II	135
5.	DIA4005	PERIODONTOLOGI II	PERIODONTOLOGY II	205
6.	DIA4006	PERGIGIAN PEDIATRIK II	PAEDIATRIC DENTISTRY II	219
7.	DIA4007	ORTODONTIK II	ORTHODONTICS II	131
8.	DIA4008	PROSTODONTIK II	PROSTHODONTICS II	334
9.	DIA4009	PEMBEDAHAN MULUT & MAKSILOFASIAL II	ORAL & MAXILLOFACIAL SURGERY II	199
10.	DIA4010	AMALAN PERGIGIAN AM II	GENERAL DENTAL PRACTICE II	100
11.	DIA4011	PROJEK ELEKTIF (P)	ELECTIVE PROJECT (P)	327

<u>TAHUN KELIMA/ FIFTH YEAR</u>				
NO.	COURSE CODE	NAMA KURSUS/ COURSE NAME		STUDENT LEARNING TIME
1.	DIA5001	PERGIGIAN MASYARAKAT IV	COMMUNITY DENTISTRY IV	173
2.	DIA5002	OPERATIF DAN ENDODONTIK III	OPERATIVE & ENDODONTIC III	242
3.	DIA5003	PERGIGIAN PEDIATRIK III	PAEDIATRIC DENTISTRY III	184
4.	DIA5004	ORTODONTIK III	ORTHODONTICS III	109
5.	DIA5005	PROSTODONTIK III	PROSTHODONTICS III	549
6.	DIA5006	PEMBEDAHAN MULUT & MAKSILOFASIAL III	ORAL & MAXILLOFACIAL SURGERY III	285
7.	DIA5007	AMALAN PERGIGIAN AM III	GENERAL DENTAL PRACTICE III	223

LIST OF UNIVERSITY COURSES

Dental students are required to undertake 14 credit hours of university courses. The predetermined required courses are taken in the First Year and are as follows:

LOCAL STUDENTS

COURSES	TERM 1		TERM 2	
	COURSE CODE	NAMA KURSUS / COURSE NAME	COURSE CODE	NAMA KURSUS / COURSE NAME
UNIVERSITY COURSES	GLT1012	FALSAFAH DAN ISU SEMASA	GIG1003	BASIC ENTREPRENEURSHIP CULTURE
	GIG1013	APPRECIATION OF ETHICS AND CIVILISATIONS		
	GIG1004	INFORMATION LITERACY		
UNIVERSITY (ENGLISH) COURSES	GLT1009	MASTERING ENGLISH VI	GLT1012	PRESENTATION SKILLS IN ENGLISH
	GLT1014	ADVANCED COMMUNICATION SKILLS	GLT1015	ADVANCED PROFESSIONAL WRITING

INTERNATIONAL STUDENTS

COURSES	TERM 1		TERM 2	
	COURSE CODE	NAMA KURSUS/ COURSE NAME	COURSE CODE	NAMA KURSUS/ COURSE NAME
UNIVERSITY COURSES	GLT1017	BASIC MALAY LANGUAGE	GIG1003	BASIC ENTREPRENEURSHIP CULTURE
	GIG1013	APPRECIATION OF ETHICS AND CIVILISATIONS		
	GIG1004	INFORMATION LITERACY		
UNIVERSITY (ENGLISH) COURSES	GLT1009	MASTERING ENGLISH VI	GLT1012	PRESENTATION SKILLS IN ENGLISH
	GLT1014	ADVANCED COMMUNICATION SKILLS	GLT1015	ADVANCED PROFESSIONAL WRITING

UM STUDENT DRESS CODE

The regulations regarding student dress at the Universiti Malaya as stated below have been implemented from the 1985/86 session:-

The purpose of this rule is to overcome the problem:

- General safety
- Safety in the laboratory
- Infectious diseases (in the clinic)
- Students are not allowed to cover their faces so that their lecturers can see the students' reactions when they are teaching. This is one of the ways to evaluate the effectiveness of teaching

To fulfill the above purpose, students are not allowed to wear the following clothing in lecture halls, seminar rooms, libraries, laboratories and other study rooms as well as examination halls:

- Slippers
- T shirt
- Gloves (except medical and dental students in clinics and laboratories)
- Any clothing that covers all or part of the face or any clothing that makes student identification difficult.
- Immodest and inappropriate clothing.

DENTAL STUDENTS PROFESSIONAL IMAGE AND GUIDELINES FOR CLINICAL STUDENTS

Part 1: GENERAL GUIDELINES FOR ALL DENTAL STUDENTS

The demeanour of every individual in the Faculty contributes directly or indirectly to the perceived standards of excellence in professionalism, care and management of patients in the eyes of the public. Deviations from accepted norms in physical appearance and professional behaviour are detrimental to maintaining the high standards our patients expect and may cause them to question the standard of care offered at the Dental Faculty, University of Malaya.

Therefore we seek your cooperation to project to our patients, colleagues and visitors a professional image of the Dental Faculty at all times. In addition to the general rules applicable to all University of Malaya students, the Faculty of Dentistry has set additional guidelines which apply to all under- and postgraduate students in both clinical and non-clinical years

Warning: Appropriate action may be taken against students who purposely refuse to comply with these guidelines, including being barred from entering clinics, laboratories, lecture halls or examination halls.

1.1 General Dress Code

- (1) All students must appear to be well-groomed at all times.
- (2) For male students - appropriate shirts, pants, shoes and socks should be worn. Students are not allowed to wear jeans, T-shirts, shorts and sandals in the faculty building during office hours.
- (3) For female students, appropriate blouses and skirts should be worn. No halter, tank tops or revealing clothes are allowed. Skirts must be of proper professional length (knee length). Earrings and jewelry should be kept to a minimum.
- (4) Shoes should be clean and closed-toed. No sandals or open-toed shoes should be worn in the clinics or laboratories.
- (5) Students who are inappropriately dressed are not allowed to be in the faculty area.
- (6) Male students should not resemble females and likewise, female students should not resemble males. This means that students are not permitted to dress up like the opposite sex and male students are prohibited from wearing makeup.

- (7) Sleeveless T-Shirts, T Sleeveless T-Shirts, T-Shirts with pictures or writings that are conflicting with the constitutional beliefs of Malaysia.
- (8) Not too tight or not 'body hugging' or revealing (transparent or see-through)
- (9) Short pants
- (10) Sandals

1.2 Face Accessories Male (Ear Stud, Nose-Rings, Lipsticks, Tattoo)

- (1) Hair colouring
- (2) Hair exceeding shoulder length (male students only)
- (3) Personal Hygiene (Nail cut appropriately)
- (4) Provocative and indecent attire.

1.3 Personal Hygiene and Cleanliness

- (1) Hair should be clean, neatly trimmed and well-maintained. Long hair should be pinned or held back so that it does not interfere with the field of vision or require handling during laboratory or clinical procedures.
- (2) Those who shave must be clean-shaven. Beards and moustaches are allowed, but must be kept clean, neatly trimmed, and appear well-groomed.
- (3) Fingernails must be kept short and well-manicured (no more than fingertip-length) to avoid puncture of examination gloves. Only clear nail polish is allowed.

1.4 Attendance to teaching sessions including lectures, tutorials/seminars, laboratory and clinical sessions

- (1) Attendance at teaching sessions is mandatory for all students. The BDS Rules 2021 explicitly states that students who fail to achieve at least 80% attendance for all Core Courses shall be barred from taking the Professional Examination, subsequently failing the courses registered at the academic session. Consequently, the student would have to repeat the particular year.
- (2) Students who miss sessions for valid reasons should request permission to be exempted from the teaching session from the Dean or TDID. The form for exemption from the teaching session is available from the Dean's office (appendix 1) with any additional documents as stated in subsection 1.3 (4).

Only hard copies shall be accepted.

- (3) Permission form must be submitted to the Dean or TDID office within a month after returning from the last date of absence. Application made after the Department or Faculty barring meeting shall be rejected and the absence counted.
- (4) Accepted reasons and their clauses are as follows:
- (a) Medical leave or quarantine
 - Proof of sickness i.e. medical certificate or quarantine order must be attached
 - (b) Medical/Dental appointments
 - Medical and dental appointments are given early. The student must obtain permission from the supervisor or lecturer that he/she shall miss the teaching session prior to attending the appointment. Application without permission from the supervisor or lecturer shall be rejected.
 - Proof of the appointment by the attending physician/surgeon/dentist i.e. time slip must be attached.
 - (c) Participation in Faculty or University related activities
 - The student must obtain permission from the supervisor or lecturer that he/she shall miss the teaching session prior to attending the appointment.
 - Proof of the event i.g. Invitation letter and recommendation letter from the University and/or Faculty authorities e.g. Dean, TDHEP or supervisor must be attached.
 - (d) Religious events
 - Permission is subject to that which is allowed by the University.
 - Application must be submitted by the individual for specific events with proof of event or student body i.e. through/by the President of DenSoc for a specific group.
 - Application for non-related/non-celebrating individuals shall not be permitted.
 - (e) Other reasons shall be considered on a case by case basis.
 - Students should request for the leave in advance for premeditated reasons. Generally, the application shall be rejected if the reason can be arranged during semester break such as taking a driving license examination.

- Exemption for attending the funeral of a close relative shall be considered for no more than 2 days, counted from the day of the funeral (one day for the event and one day to travel return). Students must provide evidence of death certificate and family relations e.g. birth certificate. Attending the funeral of a distant family or friends shall not be considered.

Part 2: RULES AND REGULATIONS IN THE CLINIC

2.1 Special Dress Code For Clinical Students

Students are expected to project a higher standard of personal grooming while working in the clinics. Therefore in addition to the university students general dress regulations, the dress code for dental students during clinical sessions are as follows:-

- (1) At the Dental Clinics and Faculty areas, students should wear the standardized scrub suit or white coat when the scrub is not available in the Dental Clinics.
- (2) At the Dental Students Laboratory, students should remove the white coat and wear the disposable apron that has been provided at the Dental Laboratory.
- (3) Students should maintain a very high standard of personal and oral hygiene so that there is no unpleasant body or mouth odor which may be unpleasant to the patients. However, very strong perfumes or cologne may be offensive to others, therefore avoid excessive use.
- (4) Fingernails must be kept short and well manicured (no more than fingertip-length) to avoid puncture of examination gloves.
- (5) Male students are required to wear slacks, collared shirts, a tie (preferably with a tie clip) or a bow tie. Shirts should be neat and well ironed. Jeans, T-shirts and other inappropriate attire for a clinical environment are not allowed. Dark coloured slacks and dark shoes are preferred to project a more professional image.
- (6) For female students-skimpy revealing dresses, clothing that are too tight fitting, too short, hipster pants, sleeveless and low cut blouses or blouses that exposes the tummy are not allowed. Female students are required to wear closed-toed shoes.
- (7) Hair must be neat at all times especially when treating patients. Long hair must be tied back so that it does not fall on to the patient's face or block the clinical operator's view during treatment.
- (8) Wearing excessive jewelry and very strong perfumes are not allowed when treating patients. Heavy application of make-up should also be avoided.

2.2 General Students Conduct In The Polyclinics

- (1) These are some of the guidelines to the students.
 - (a) Food and drinks are not allowed in the clinics.
 - (b) Students are not allowed to use mobile phones at all times while in the clinics. Reading newspapers, using a handphone, and SMS while assisting are not allowed.
 - (c) Students are to leave the clinic when they have no patients and are not allowed to group together and have chit-chats.
 - (d) Students should communicate only in English and Bahasa Malaysia when in the clinic except while communicating with patients.
 - (e) Working tables must be kept neat, tidy and clean at all times. Mobile storage units must be tucked in its proper place after use at each session.
 - (f) Students must follow the discipline of his/her group as stated in the timetable. That is, they are not allowed to change cubicles/discipline in the clinic.
 - (g) In the event that the student needs to change cubicles, he/she must get approval from the TDID to change cubicles. Procedure is as follows:
 - Obtain the agreement of the clinical partner. Learning of the clinical partner for that particular discipline is a shared responsibility;
 - Obtain the approval from the supervisor who agreed to supervise and the polyclinic sister supervisor;
 - Obtain the approval of the Designated Supervisor and his/her Head of Department;
 - Submit the form to the Dean's office for approval by the TDID.
 - Retrospective approval is prohibited.

2.3 Merit System Students are required to follow the merit system regulated by the University.

- (1) Students are strongly encouraged to participate in any Faculty or University related activities.
- (2) Students should participate to represent the Faculty and University in extracurricular activities and academic competitions at National and International level to uplift the reputation of the University.

- (3) The achievements may be used for selection of outstanding awards to the performing students.

2.4 Special Attire In The Polyclinic

- (1) Treatment gowns are available when treating patients and students are required to follow the clinical guidelines available from the polyclinic and other treatment areas.
- (2) Only one gown is allowed per student per session and has to be recorded upon receiving and returning. Should there be any damage to the gown due to negligence, a fee will be charged for a replacement.
- (3) Students will be provided with gloves and masks in the clinic.
- (4) Disposable gowns and disposable bibs are available from the store **ONLY FOR** cases of high risk patients.
- (5) Students must be consistently alert and be updated with any changes related to PPE by the Faculty of Dentistry Infection Control Committee from time to time.

2.5 Hand And Face Protection

- (1) Hands shall be washed with soap and water prior to wearing gloves and immediately after removing gloves
- (2) Examination gloves must be worn during all procedures. Sterile surgical gloves must be worn for surgical procedures
- (3) Gloves shall be changed for each patients if torn or contaminated
- (4) Gloves are to be removed when leaving the clinic, or when leaving the dental cubicle to use equipment (laboratory equipment, etc.). New gloves must be worn when returning to patient care.
- (5) Jewelry must be removed from hands prior to washing hands and donning gloves. Jewelry and watches worn on the wrists must be covered by clinic gown sleeves during patient treatment.
- (6) Protective eyewear with side shields and a face mask, or face shield in combination with mask, must be worn for all splash or spatter producing procedures.
- (7) Students must be consistently alert and be updated with any changes related to PPE by the Faculty of Dentistry Infection Control Committee from time to time.

2.6 Clinical Gowns

- (1) Clinical gowns must be worn by students when providing patient care in the clinics
- (2) The backs should be snugly secured. Only gowns provided by the Dental Faculty may be used. The gowns are colour-coded for the different clinical years
- (3) Gowns must be changed daily or more often if visibly soiled with blood
- (4) Gowns may not be worn in areas outside of the clinics such as restrooms, lounges elevators, laboratories, etc
- (5) Used gowns must be placed in the receptacles which are provided in the clinics
- (6) Official identification badge must be worn on the outside of the clinic gown.
- (7) Students must be consistently alert and be updated with any changes related to PPE by the Faculty of Dentistry Infection Control Committee from time to time.

2.7 Tracing of Folders & Handling of Patient's Clinical Records

- (1) Students are to give appointments for their patients according to their timetable
- (2) Attendance cards are available at the receptionist counter and students are requested to fill up the card in advance to get the patient's folders.
- (3) Folders will be given to students when patients come for treatment. Patients' attendance will be recorded by the receptionist.
- (4) Students must update all treatment in DEISY at the end of the day. All records are strictly confidential. **All patients' records are strictly confidential and are legal documents and should be treated with respect.**
- (5) Folders of patients that come on a regular basis (weekly/twice weekly) are to be kept on the shelves at the receptionist counter.
- (6) Emergency patient's folders can be requested on the spot via the receptionist.

2.8 Attendance In The Clinic

- (1) Students are only allowed to enter the clinic **10 minutes before the clinic** starts at each session.
- (2) Students are to leave **15 minutes** before the end of each clinical session in the morning and afternoon session.
- (3) At the end of each session, a bell will ring as a reminder to stop work.

For the morning and afternoon sessions:

Time	Remarks
45 mins before session end (The 1 st bell will ring)	Students are to finish whatever treatment they are doing
30 mins before session end (The 2 nd bell will ring)	Students are to clear up and clean the cubicle and instruments
15 mins before session end (The 3 rd bell will ring)	Students are to leave the clinic

2.9 Instruments

- (1) Request forms for instruments are available from the polyclinic counter. These are to be filled and handed over to the staff one day before instruments are required.
- (2) The requested instruments will be ready and can be taken for use on the appointed date. All instruments taken are to be recorded upon receiving and returning.
- (3) At the end of each session, instruments used are to be wiped clean off blood and debris with gauze, soaked in disinfectant following the manufacturing instruction, washed and dried before being returned for sterilization.
- (4) In high-risk patients, students are to inform the nursing staff so that special precautions can be taken.

2.10 Special Dental Equipment

- (1) Equipment, like impregum mixers, light cure units, EPT sets and apex locators and shade guides are to be returned immediately after use for the benefit of other colleagues as they are limited in numbers.
- (2) Students are responsible to return the Special Dental Equipment.
- (3) Impression trays are on loan for a maximum of 3 days.

2.11 Dental Materials

- (1) Students should avoid wasting dental materials. Please refer to the regulations set for each laboratory/polyclinics on dental materials.
- (2) Lecturer's approvals may be required for getting certain clinical materials.

BDS CURRICULUM (2015)

From the entry of the 2015/2016 session, Year 1 students use the revised new curriculum (BDS 2015). The language of instruction for this course is conducted entirely in ENGLISH.

PROBLEM-BASED LEARNING (PBL), CASE-BASED LEARNING (CBL) AND SOFTSKILLS

PBL and CBL methods require the active participation of students in their learning, which is the acquisition of self-directed learning skills. Students are encouraged to study in groups to achieve problem-based learning objectives (PBL module) that are triggered in case scenarios and find information from various sources.

PBL and CBL sessions are conducted in small groups with approximately (10-14) students per group, subject to the number of students for each year of study. For each PBL module, each group will meet two or three times under the supervision of their respective facilitators. Each session is conducted within 2 hours for brainstorming and discussing the identified learning issues.

The second and third sessions (if any) are held after the first session. In these sessions, students will discuss and share the information obtained related to the learning issues that have been identified in the presence of their facilitators. Each student will be evaluated on their level of participation during the PBL and CBL sessions. For the preparation of the report, each group of students (10-14) will be divided into 2 small groups. Reports will be evaluated by the respective facilitators.

From the 2007/2008 Session, the Ministry of Higher Education (KPT) has required all Higher Education Institutes (HEIs) in Malaysia to implement Human Skills Development (KI) into all basic degree training programs. The purpose is to increase the ability of human capital that is quality and competitive at the global level.

The approach to Human Capital Development is implemented holistically, which emphasizes the development of knowledge, skills, intellectual capital including science, technology and entrepreneurship and the cultivation of progressive attitudes as well as high ethical, professional and moral values.

The Faculty of Dentistry implements the Development of Soft Skills holistically through application in the curriculum and training (embedded). All students will be graded on their Soft Skills level in certain modules including PBL and CBL, elective projects, community projects and field work.

The elements of Soft Skills that will be evaluated are:

1. Communication skills
2. Critical thinking and problem-solving skills
3. Teamwork skills
4. Continuous Learning and Information Management
5. Entrepreneurial skills
6. Ethics and Professional Morality, and
7. Leadership skills.

Each student will be graded on the level of proficiency in Soft Skills in the PBL and CBL assessment.

Soft skills will be assessed in PBL and CBL and certain projects. Every student must achieve at least a passing grade (Grade C). Students need to follow a strengthening/rehabilitation program until they reach the minimum level of passing the Soft Skills.

ASSESSMENT & EXAMINATION

There are different types of assessments for each course. These assessments are correct at the time of printing and may be updated when necessary and if required by the relevant authorities (Course Coordinators, Universiti Malaya, Malaysian Dental Council and Dental Deans Council).

GRADING SYSTEM

Marks	Grade	Grade Point	Meaning
90.00 – 100.00	A+	4.00	High Distinction
80.00 – 89.99	A	4.00	Distinction
75.00 – 79.99	A-	3.70	Distinction
70.00 – 74.99	B+	3.30	Good
65.00 – 69.99	B	3.00	Good
60.00 – 64.99	B-	2.70	Good
55.00 - 59.99	C+	2.30	Pass
50.00 - 54.99	C	2.00	Pass
45.00 - 49.99	C-	1.70	Fail
40.00 - 44.99	D+	1.30	Fail
35.00 - 39.99	D	1.00	Fail
0.00 - 34.99	F	0.00	Fail

BDS CORE COURSES

The BDS courses are assessed throughout each year. The continuous assessments for each course are compiled to give the grades for each course. These assessments may include semester tests and other class based or clinical assessments or assignments. Marks from each course contribute to 40% of the professional examination of each year. The remaining 60% are attributed to the final professional examination.

Assessment/Examination	Percentage	Timing
Continuous Assessment	40%	Sem 1.2 to 2.2
Final Professional Examination	60%	Year end
Total	100%	

Students who passed the BDS professional examination of each year will be allowed to proceed and register for the subsequent year and graduate. Students who fail the BDS professional examination will be required to take the Supplementary Professional Examination. Upon passing, the student will be allowed to proceed and register for the subsequent year and graduate.

Assessment/Examination	Percentage	Timing
Supplementary Professional Examination	100%	Year end
Total	100%	

MINIMAL CLINICAL COMPETENCY AND EXPECTED CLINICAL EXPERIENCE

The following definitions are related to the clinical assessments:

No	Terms	Definition
1.	Clinical competency	<ul style="list-style-type: none"> • Ability to carry out a task (clinical procedure) on a patient / simulated patient to a predetermined standard / level independently without assistance or supervision. • Assessment covers cognitive, affective, psychomotor domains and professional values (4 domains; Professionalism & patient safety, communication skills, diagnostic skills and clinical management).
2.	Procedural competency	<ul style="list-style-type: none"> • Ability to carry out a task (clinical procedure) on a patient/ mannequin to a predetermined standard/ level independently without assistance or supervision. • Assessment covers cognitive, affective, psychomotor (technical skill) domains.
3.	Minimum clinical experience	<ul style="list-style-type: none"> • It is a pre-requisite for competency assessment. • It consists of quantitative (minimum number of requirements) and/ or qualitative measurements according to rubrics of clinical assessment.
4.	Expected clinical experience	<ul style="list-style-type: none"> • This comprises expected clinical and procedural experiences prior to the final professional examination/ graduation.
5.	Predetermined standard / level	<ul style="list-style-type: none"> • As indicated in the Competencies of New Dental Graduate in Malaysia (approved by the Malaysian Dental Council)
6.	Competency-based assessment	<ul style="list-style-type: none"> • Clinical assessment by qualitative measurements according to rubrics. • Met the pre-requisite requirement (minimum clinical experience) to sit the clinical competency test; <ul style="list-style-type: none"> ○ Time-based (readiness of a student) or; ○ Completion of minimum number of clinical requirement or; ○ Combination of the above.

The following are minimum/ expected clinical/ procedural experience/ competencies during the course. These may be set as the barring criteria from undertaking the final professional examinations held at the end of each year. Dental students should refer to the respective disciplines for the minimum requirements that should be achieved at the end of the clinical years /prior to graduation.

Disciplines	Clinical/ Procedural Competency	Clinical Experience Procedure
General Dental Practice Comprehensive Care	Examination & diagnosis Intra oral radiographic imaging Infection control Basic life support LA procedure Prescription of common drugs	Case completion
Restorative	Caries management	Indirect restorations Onlays/crowns Post and core
Prosthodontic	Removable prosthesis Fixed prosthodontics	Complete denture Bridge
Endodontic	Root canal treatment	
Periodontic	Scaling and polishing	Root debridement
Oral Surgery	Exodontia	Surgical removal of impacted tooth or root
Paediatric Dentistry	Behavioural management	Stainless steel crown Pulpotomy Restorative procedure
Orthodontics		Orthodontic diagnosis Simple orthodontic treatment: removable appliances/ retainers which includes construct, issue and review.
Oral Medicine		Identify and distinguish orofacial diseases, oral mucosal lesion and related systemic conditions.
Preventive Dentistry		OHI/OHIE Smoking cessation counselling according to the standard protocol. Caries risk assessment

		<p>Caries risk management:</p> <ul style="list-style-type: none"> • Plaque monitoring • Topical fluoride • Fissure sealant • Dietary advice
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AWARDS/ PRIZES

1. Dean's Award

Students who achieve Grade A- and above for the Professional Examination (Overall) for the relevant academic year and meet the following conditions are eligible to be awarded the Dean's Award:

- (1) Not repeating the year of study in question;
- (2) Did not sit for the Supplementary Examination for the study year in question;
- (3) Not subject to any disciplinary action by the Faculty or disciplinary action by the University under the Universiti Malaya (Student Discipline) Rules 1999 or the latest.

2. Distinction Award

Setting the criteria for the selection of the best students for the academic year concerned. A total of two (2) students will be selected based on the following criteria:

- (1) Student who obtained B+ (Honours) for the professional examination of the particular academic year.
- (2) If there are more than two (2) students who obtained a B+ (Honours) result for the professional examination of the particular academic year, the cumulative total marks will be the criteria in the selection.
- (3) If no student obtains a B+ (Honours) result, then no Distinction Award will be awarded to the student for the particular academic year.

The same criteria will be used for the selection of the best students for the First Year, Second Year, Third Year, Fourth and Fifth Year.

3. University Book Prize (*Hadiah Buku Universiti*) - Fifth Year only

This prize is awarded to students based on their outstanding performance in exams.

The University Book Prize is awarded to students who obtain a B+ (Honours) result for the professional examination of the academic year concerned.

If there are more than two (2) students who obtained a B+ (Honours) result for the professional examination of the academic year in question, the cumulative total marks will be the criteria in the selection.

4. Tun Razak Gold Medal (*Pingat Emas Tun Razak*) - Fifth Year only

The Tun Razak Gold Medal Award is given to students who obtain a B+ (Honours) result for the professional examination of the academic year and are selected from the Dean's List.

If there is more than one student who obtained a B+ (Honours) result for the professional examination of the particular academic year who is on the Dean's list, the cumulative total marks will be the criteria in the selection.

5. Dr. Sim Tang Eng Award (*Anugerah Dr. Sim Tang Eng*) - Fifth Year only

The highest total aggregate marks in the final year examination in the 3 subjects;

- Conservative Dentistry;
- Prosthetic Dentistry and Orthodontics;
- Paediatric Dentistry.

In the event of a tie, the student with the higher marks in Conservative Dentistry shall prevail.

6. Dr. Solmi Abdullah Dentistry Medal for Outstanding Female Graduate - Fifth Year only

A selection committee will be established for the purpose of identifying the best candidate for the award. It is proposed that the selection committee will comprise of 6 people namely 2 from the Dean's Office, 2 from the family and 2 independent representatives.

The selection criteria for the winner should include the following:

- (1) Academic/Clinical Performance
- (2) Demonstrate excellent research capability
- (3) Service to community

[Weightage will be as follows: 40:20:40]

7. Prosthodontic Award - Fifth Year only

Excellence in Prosthodontic clinical practice.

8. Dr. Raja Latifah Award - Fifth Year only

The criteria for the Raja Latifah Award are:

- 1) Passed at least Grade B+ in Community Dentistry course for each year of study.
- 2) Completion of studies within the minimum period of study.
- 3) Exhibit good leadership in carrying out oral health promotion projects that are part of the dental curriculum.
- 4) Active involvement in community activities other than those found in the dental curriculum.

9. Dr. Ibrahim Mohd Yassin Gold Medal - Fifth Year only

The nomination criteria are as follows:

- 1) Obtain the final results of at least passing with grade B for each Professional Examination Bachelor of Dental Surgery.
- 2) Never repeat the year of study.
- 3) Have leadership characteristics and active in sports activities, associations and social/artistic activities.
- 4) Ever represented the Faculty of Dentistry in academic competitions, sports, or any appropriate activity at the national and international level and obtained an award as a result of such involvement.
- 5) Never been subject to any disciplinary action.
- 6) Not in debt to the University.

10. Universiti Malaya Dental Alumni Association (MUDA) Outstanding Student Award

The nomination criteria are as follows:

- 1) All-rounder exhibiting good academic performance and extra-curricular activities.
- 2) Good leadership quality: Previous experience or leader of projects
- 3) Team player: Active in sports or other activities; representing UM or district/state/national level, or receiving special awards.
- 4) Community service: Involvement in community service within or outside university.

Selection will be made by Year 3, 4 and 5 students, lecturers and CV provided by the students.

11 . **Other scholarships/loans**

At every session, Universiti Malaya students are offered scholarships/loans from sponsors consisting of the Central Government, State Governments, Statutory Bodies and local/overseas Companies/Firms.

If students have problems about scholarships/loans, please contact:

Student Services Unit

*Academic Administration and Services Division (AASD), Examination Building,
Universiti Malaya, 50603 Kuala Lumpur, MALAYSIA*

Tel: 603-7967 6996

Fax: 603-79673449

Email: scholarship_aasc@um.edu.my

Tel: +603-7967 6996 / 2627

Fax: +603-7956 7595

or

Student Affairs Division

*Level 2, Block E, Perdanasiswa Complex,
Universiti Malaya, 50603, Kuala Lumpur*

Email: hep@um.edu.my

Tel: +603 7967 3506

REGISTRATION AS A DENTAL SURGEON WITH THE MALAYSIAN DENTAL COUNCIL

To practice dentistry in Malaysia, the dental student must be familiar with the Dental Act 2018. Upon completion of the BDS course, the dental graduate will need to register with the Malaysian Dental Council to practice dentistry.

Under the Dental Act 2018, from 1st January 2025, BDS graduates from UM must also be certified by the Dental Qualifying Committee to have passed the Professional Qualifying Examination (PQE) (Rule 29). The PQE shall be conducted by UM for their dental students. Dental graduates, who did not pass the PQE during the course at UM, would need to apply separately to take the PQE examination (resit examinations).

Registration is restricted to those who do not maintain good character (Rule 32). Excerpt of the Dental Act 2018 are as follows:

LAWS OF MALAYSIA (DENTAL ACT 2018)

Chapter 2 Registration

Qualifications for registration as dental surgeon

29. (1) A Malaysian citizen may apply to the Dental Registrar to be registered as a dental surgeon if—

- (a) he holds a qualification granted by an accredited local training institution;
- (b) he has been certified by the Dental Qualifying Committee to have fulfilled the requirements of the Professional Qualifying Examination; and
- (c) he has proven to the satisfaction of the Dental Registrar that he is a fit and proper person and is of good character.

Restriction on registration

32. (1) The Council or the Board may direct the Dental Registrar or the Dental Therapists Registrar, as the case may be, not to enter the name of any person applying for registration as a dental surgeon or a dental therapist in the Dental Register or the Dental Therapists Register if—

- (a) he has, at any time, been found guilty of an offence involving fraud, dishonesty or moral turpitude, or an offence punishable with imprisonment, whether in itself only or in addition to or in lieu of a fine;
- (b) he has, after due inquiry, been found by the Council or the Board to have been guilty of infamous conduct in any professional respect or to be otherwise not of good fame and character;
- (c) he has contravened any provisions of this Act or any regulations made under this Act;
- (d) his name has since been removed from the register of dental practitioners or register of dental therapists, or from the roll of any dental college or licensing body maintained in any place outside Malaysia, as a result of any misconduct or disciplinary proceedings; or
- (e) he has, after due inquiry by a Fitness to Practice Panel, been found to be incapable by reason of physical or mental infirmity, or been found to be incompetent to perform his professional duties.

The Malaysian Dental Council also considers the fitness to practice in the selection of entry into a dental programme. Details are according to this link:

https://mdc.moh.gov.my/uploads/Lampiran_1_Minimum_Qualifications_For_Entry_Into_A_Dental_Programme_Malaysian_Level6_2023.pdf.

The UM dental student must declare to the Dean, Faculty of Dentistry, UM, as soon as possible, if he/she has any circumstances that will impact his/her fitness to practise upon graduation.

PROFESSIONAL QUALIFYING EXAMINATION (PQE)

UM shall conduct the PQE for their dental students throughout the programme.

Part	Year	Expected completion	Prerequisite	Checklist of passing
Part I - Theory Examinations	1	In Final Professional Exams (HHD)		
	2	In Final Professional Exams (HHD & CDM1)	Must pass Year 1	
	3	In Final Professional Exams (HHD & CDM1-4)	Must pass Year 2	
	4	In Final Professional Exams (CDM1-4 & COHPD)	Must pass Year 3	
	5	In Semester 1.2 test (CDM1-4 & COHPD)	Must pass Year 4	
	Documents shall be submitted to DQC at least 3 months before Part III			
Part II - Pre-clinical Examinations			An assessment schedule shall be submitted to the MDC Secretariat, at least three (3) months prior to its implementation.	
Component 1 (Restoration ICDAS 5) [Model/ Clinical Competency]	Y2 Sem 2.2	Y3 Sem 1.2		
Component 2 (PFM) [Model]	Y4 Sem 2.2	Y5 Sem 1.1		
Component 3 (RCT Premolar) [Model]	Y3 Sem 1.2	Y3 Sem 2.2		
Part III - OSCE	Y5	Semester 2.1 or <u>after</u> Final Professional Examination	Part I and II must be completed at least 1 month before Part III	

Appendix 1



FAKULTI PERGIGIAN
Faculty of Dentistry

ABSENCE FORM FOR UNDERGRADUATE STUDENTS DENTAL SURGERY (BDS) TO LECTURE/TUTORIAL/DEMO/CLINICAL

Attention:

1. The completed form must be submitted together with proof of absence to the Dean's Office within 14 days from the date of absence.
2. Students who are given quarantine leave due to an infectious disease (eg COVID-19) need to include evidence from MySejahtera or a medical report.
3. Students need to mark the lecture/tutorial/demo/clinical space that they are not present.
4. Please note that the application will not be processed if the student does not follow the prescribed instructions and the form is incomplete.

Date	:	_____
Student Name	:	_____
Matrics No	:	_____
Phone No	:	_____
Year of Study	:	_____
Current Academic Session	:	_____

Course Information (Please tick the relevant Department / space):

Faculty of Medicine	Faculty of Dentistry:-	
Anatomy	Department of Oral and Craniofacial Sciences	
Molecular Biology	Department of Restorative Dentistry	
Pharmacology	Department of Oral & Maxillofacial Clinical Sciences	
Physiology	Department of Community Dental Health & Clinical Prevention	
Medical Microbiology	Department of Pediatric Dentistry & Orthodontics	
Pathology	Clinical session:	
General Medicine	University Course:	
General Surgery		
Biochemistry		

Date(s) of Absence	:	_____
Total Hours / Days	:	_____
Reason for absence	:	_____

KEGUNAAN PEJABAT

☐ Student leave is only approved from: _____ till _____

☐ Student leave is only approved on: _____ from: _____ am/pm till _____ am/pm

☐ Student leave is not approved because: _____

Regards,

Date: _____

DEPUTY DEAN (UNDERGRADUATE)
Faculty of Dentistry

PART 2
RULES AND REGULATIONS UNIVERSITI MALAYA
(BACHELOR OF DENTAL SURGERY) 2021

KAEDAH-KAEDAH UNIVERSITI MALAYA
(IJAZAH SARJANA MUDA PEMBEDAHAN PERGIGIAN) 2021

AND

PERATURAN-PERATURAN UNIVERSITI MALAYA
(IJAZAH SARJANA MUDA PEMBEDAHAN PERGIGIAN) 2021



<https://bit.ly/KaedahdanPeraturanBDS20232024>

PART 3

COURSES PROFORMA



<https://bit.ly/CourseProformaBDS20232024>

BDS 2015 Curriculum

Academy/Faculty/Institute/Centre	Faculty of Dentistry
Department	All Departments (Faculty of Dentistry & Faculty of Medicine)
Programme	Bachelor of Dental Surgery (BDS)
Course Code* Course Title*	<p>Year 1 BDS</p> <p>DIA 1001 Oral Biology</p> <p>DIA 1002 Anatomy</p> <p>DIA 1003 Biochemistry</p> <p>DIA 1004 Physiology</p> <p>GIG 1001 Islamic and Asian Civilization</p> <p>GIG 1002 Ethnic Relations</p> <p>GIG 1003 Basic Entrepreneurship</p> <p>GIG 1004 Information Literacy</p> <p>GIG 1006 Introduction to Malaysia GLT 1005 Mastering English IV*</p> <p>GLT 1006 Mastering English V / GLT 1007 Essential Writing Skills / GLT 1008 Effective Communication* GLT 1009 Mastering English VI*</p> <p>GLT 1010 Mastering English VII / GLT1011 Technical Writing Skills in English / GLT 1012 Presentations Skills in English / GLT1013 Reading Critically*</p> <p>GLT1014 Advanced Communication Skills* GLT 1015 Advanced Professional Writing*</p> <p>Note: * <i>University's Compulsory Courses (Kursus-kursus Wajib Universiti)</i></p> <p>Year 2 BDS</p> <p>DIA 2001 Community Dentistry I</p> <p>DIA 2002 Oral & Maxillofacial Imaging I</p>

	<p>DIA 2003 Dental Materials & Dental Technology</p> <p>DIA 2004 Pathology</p> <p>DIA 2005 Medical Microbiology</p> <p>DIA 2006 Pharmacology</p> <p>Year 3 BDS</p> <p>DIA 3001 Community Dentistry II</p> <p>DIA 3002 Oral & Maxillofacial Imaging II</p> <p>DIA 3003 Operative & Endodontic I</p> <p>DIA 3004 Oral Pathology & Oral Medicine I</p> <p>DIA 3005 Periodontology I</p> <p>DIA 3006 Paediatric Dentistry I</p> <p>DIA 3007 Orthodontics I</p> <p>DIA 3008 Prosthodontics I</p> <p>DIA 3009 Oral and Maxillofacial Surgery I</p> <p>DIA 3010 General Dental Practice I</p> <p>DIA 3011 Human Diseases (General Surgery)</p> <p>DIA 3012 Human Diseases (General Medicine)</p> <p>Year 4 BDS</p> <p>DIA 4001 Community Dentistry III</p> <p>DIA 4002 Oral & Maxillofacial Imaging III</p> <p>DIA 4003 Operative & Endodontic II</p> <p>DIA 4004 Oral Pathology & Oral Medicine II</p> <p>DIA 4005 Periodontology II</p> <p>DIA 4006 Paediatric Dentistry II</p> <p>DIA 4007 Orthodontics II</p>
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	DIA 4008 Prosthodontics II DIA 4009 Oral & Maxillofacial Surgery II DIA 4010 General Dental Practice II DIA 4011 Elective Project* Year 5 BDS DIA 5001 Community Dentistry IV DIA 5002 Operative & Endodontic III DIA 5003 Paediatric Dentistry III DIA 5004 Orthodontics III DIA 5005 Prosthodontics III DIA 5006 Oral & Maxillofacial Surgery III DIA 5007 General Dental Practice III *Progressive Course		
Course Pre-requisite(s)/ Minimum Requirement(s)	Refer to - Year of Study course requisites.		
Student Learning Time (SLT)			
	BIL (No.)	AKTIVITI PENGAJARAN DAN PEMBELAJARAN (TEACHING & LEARNING ACTIVITIES)	MASA PEMBELAJARAN PELAJAR (Jam) (STUDENTS LEARNING TIME (SLT) (Hours))
	1	Year 1	1,577
	2	Year 2	1,845
	3	Year 3	2,560
	4	Year 4	2,396
	5	Year 5	1,765
	6	University Compulsory Courses (Kursus Wajib Universiti)	560
	JUMLAH SLT (TOTAL SLT)		10,463

Course Learning Outcomes*	Refer to - Individual Course/Codes
Transferable Skills	<p>Skills obtained in earlier years (Pre-Clinical Years/ Basic Medical Sciences) are utilized in the latter years (Clinical) in increasing levels of complexity and clinical applications.</p> <p>Communications, Critical thinking & Problem solving, Leadership & team working skills, Information management and lifelong learning skills, Professional Ethics and Moral values, Scientific research skills.</p>
Synopsis of Course Contents	<p>The Year 1 and 2 course involves basic medical sciences and some clinical exposure to show its relevance. The basic sciences involves Anatomy (study of normal human body principles of histology, embryology, neuro anatomy and gross human anatomy); Biochemistry (Principles related to dental practice); Physiology (Principles related to dental practice); and Oral Biology (Basic oral sciences related to structure, function, processes in physiology, anatomy, histology, biochemistry, and microbiology of the oral and peri-oral region and its relationship). In addition, Compulsory University courses to develop students' hard and soft skills and awareness of nation building and social responsibility. Subjects include Information Management skills, Islamic and Asian Civilization, Basic Entrepreneurship, Ethnic Relations, English for Academic and Professional Writing, Critical Thinking and Problem Solving.</p> <p>In Year 3, 4 and 5 students will be introduced to clinical dental practice in the various dental disciplines gradually in progressive complexity until they are able to demonstrate ability to carry out common dental procedures safely, independently, ethically and professionally on dental patients. In Year 5 students will carry out a supervised research project leading to a scientific presentation in a student's conference and write a research report. Students will be introduced to actual working conditions through community oral health postings held at various states and submit a written report.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Seminars, Demonstrations, Practicals, Clinical Dental Practice (Treatment on Patients), Hospital ward rounds, Accident & Emergency unit posting, Case studies, Case Based Learning, Problem Based Learning, PBL Soft Skills Development, Community Oral Health Project, Students Elective Research Project, Annual Dental Students Scientific Conference & Community Oral Health Posting.

Assessment Weightage	(Semester Tests, MCQ/ SAQ/ MEQ/ Quizzes/ Practicals/ Viva-voce/ Clinical Competency Tests/ Reports/ Oral & Poster presentations)
Methodologies for Feedback on Performance	Display of test results, coursework & clinical grades, post-examination reviews, Direct feedback in Clinics, Labs, Classes, Seminars & Tutorials, Discussion with lecturers, Mentor-mentee program.
Criteria in Summative Assessment	Continuous Assessment (40%) Final Examination (60%)

Academy/Faculty/Institute/Centre Department	Dentistry Oral and Craniofacial Sciences
Programme	Bachelor of Dental Surgery
Course Code* Course Title*	DIA 1001 Oral Biology
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)* Credit*	570 Not applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Apply the basic knowledge of structures, functions and development of dental and oral tissues to the practice of dentistry. (C4,P3) 2. Apply the basic knowledge of metabolic pathways and environment associated with the oral cavity to the learning and practice of dentistry. (C3,P3) 3. Identify the dental and oral tissues and oral microbes using a microscope. (C2,P3) 4. Analyse data related to biochemistry and physiology relevant to dentistry. (C4,P3) 5. Produce tooth carvings according to the normal tooth anatomical structure. (P3) 6. Identify deciduous and permanent teeth according to dental notation. (C2,P3) 7. Apply their knowledge of basic medical sciences to medical and dental problems. (C3,P2)
Transferable Skills	Able to produce tooth carving models.

Synopsis of Course Contents	<p>The field of oral biology includes oral anatomy and histology, oral physiology, oral biochemistry and oral microbiology.</p> <p>Oral anatomy comprises the morphology of the permanent and deciduous dentition, occlusion and the development of the oro-facial, craniofacial and jaws (embryology) and genetic aspects. Oral histology includes the development, structure and significance of oral tissues such as enamel, dentine, pulp, cementum, periodontal ligament, oral mucosa and alveolar bone. Oral physiology involves mechanisms of mastication, speech, taste and smell and control of salivation.</p> <p>Oral biochemistry comprises of structure of the biological apatite, the importance of calcium & phosphorus, mineralisation mechanisms of hard tissues, composition of bone and teeth, role of diet in the development of bone and teeth, fluoride metabolism and its preventive action against caries, as well as the composition, properties, functions, and formation of saliva.</p> <p>Oral microbiology includes the normal flora of the mouth, formation of dental plaque and its association with the development of caries & periodontal disease.</p> <p>In all aspects, the basic science components are related to its clinical relevance.</p> <p>Problem Based Learning (PBL) is introduced for integrated learning.</p> <p>Students will be required to write a report on oral biology-based topics supervised by lecturers to enhance lifelong learning. Students are required to carve selected teeth to help strengthen their knowledge on tooth morphology.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demonstrations, Practical, Problem Based Learning, small group discussion, seminar, visit
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment : 40%</p> <p>Final Exam: 60%</p> <p>Formative review sessions : Semester test: 1 hour review session on students' performance & model answer; total 2 hour review session per year; i.e. 1 hour per each Semester test;</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/ Centre	Dentistry
Department	Anatomi (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA 1002
Course Title*	Anatomy
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)*	355
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Describe the anatomical concepts of the human body (C2) 2. Relate the anatomical structure to function of the thorax, head and neck (C3, P3). 3. Relate the Histology, Embryology and Neuroanatomy of the head and neck region. (C3, P3). 4. Relate how disturbances in form and function of the human body may cause clinical problems. (C3, P3) 5. Analyse the above basic knowledge in anatomy to the practice of dentistry.(C4, P3)
Transferable Skills	None
Synopsis of Course Contents	<p>This course is designed to give detailed knowledge and understanding of the anatomy of the human body in general, and the head and neck region in particular, which are relevant to the practice of dentistry.</p> <p>This course covers the following topics: Anatomy of the Oral cavity and submandibular area, nasal cavity and paranasal sinus, soft palate and pharynx, larynx, endocrine system, head and neck, ear and lymphatic system, congenital malformation, abdomen and gastrointestinal system.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Practicals, demonstration, Seminars,

Assessment Weightage*	Continuous assessment: 40% Professional examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Perubatan Molekul (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA1003
Course Title*	Biochemistry
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)*	356
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:</p> <ol style="list-style-type: none"> 1. Describe the biochemistry of macro-molecules, related to their biological functions. (C3,P2) 2. Describe the roles of enzymes in biochemical processes. (C3) 3. Describe how dietary macro-molecules are utilised in the body. (C3) 4. Describe the role of amino acids in the intermediary metabolism. (C3) 5. Describe the role of genetic material in gene expression related to genetic diseases. (C3) 6. Describe the nutritional values of macro and micro nutrients. (C3,P3) 7. Apply the above basic knowledge in biochemistry to the practice of dentistry. (C4,P3)
Transferable Skills	None
Synopsis of Course Contents	<p>Biochemistry is the study of life processes at the molecular level.</p> <p>It is the study of chemical reactions at molecular level involving both molecules and macromolecules in cells. Their differences in structures, chemical properties and specific functions are explained. The major reactions in energy production, synthesis and degradation of molecules and macro-molecules are identified.</p> <p>This course also identifies the role of nutrients in strict maintenance of a healthy biological system. The metabolic control and regulation of various biological systems will also be taught.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Practicals, Presentations, Group discussions
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment :40% Professional Exam: 60%</p> <p>Feedback in class, discussion with lecturers, and display of test/coursework grades on the student's board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Fisiologi (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA1004
Course Title*	Physiology
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)*	296
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. State the normal values of physiological parameters in a normal human body. (C1) 2. Describe the normal functions of various organ systems such as nervous, muscular, circulatory cardiovascular, respiratory, gastrointestinal, renal, endocrine, reproductive systems. (C2,P2) 3. Integrate the various organ systems to explain how the body is able to maintain a normal internal environment (homeostasis). (C4) 4. Describe the physiological basis to explain signs and symptoms of pathological conditions. (C4) 5. Relate the above basic knowledge in physiology to the practice of dentistry.(C4)
Transferable Skills	<p>Ability to perform procedures relevant to human physiology such as:</p> <ul style="list-style-type: none"> ▪ Assessment of vital signs including measuring pulse rate and blood pressure ▪ Determination of blood group based on antigen-antibody reaction ▪ Basic spirometry test to measure lung volumes & capacities ▪ Examination of general cutaneous sensation and special senses (hearing & vision).

Synopsis of Course Contents	<p>This course is designed to give knowledge and understanding of how the main systems in the body act to maintain normal physiological functions.</p> <p>The course material includes the following topics: Cell, blood, nerve, skeletal muscle, neuromuscular junction, synapse, reflex, autonomic nervous system, smooth muscle, cardiovascular system, respiratory system, gastrointestinal system, renal system, acid-base balance, shock, endocrine system, reproductive system, sensory and motor system and hypothalamus.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Practicals, e-learning resources
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment : 40%</p> <p>Final Exam: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre Department	Chancellory <i>Seksyen Kokurikulum, Elektif Luar Fakulti dan TITAS (SKET)</i>
Programme	University Courses
Course Code* Course Title*	GIG 1001 Islamic and Asian Civilization
Course Pre-requisite(s)/ Minimum Requirement(s)	Not Relevant
Student Learning Time (SLT)* Credit*	80 hours 2
Course Learning Outcomes*	At the end of this course, students are able to: <ol style="list-style-type: none"> 1. Explain the importance of science, civilization and dialogue of civilizations in forming a harmonious society between different cultures. 2. Apply the values shared in fostering the spirit of understanding and mutual respect for different civilizations and religions. 3. Demonstrate the ability to interact and engage with each other and different cultures.
Transferable Skills	Communication Skills, Teamwork Skills, Professional Ethics and Moral.
Synopsis of Course Contents	This course discusses the role of civilization in shaping perceptions, personality and harmony between people of different cultures. This course also applies moral values and understanding between different cultures through dialogue and interaction abilities.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lecture, educational visit & dialogue session, course work, presentation.

Assessment Weightage*	Continuous Assessment: 70% Final Examination:30%
Methodologies for Feedback on Performance	Result showed on SPeCTRUM
Criteria in Summative Assessment	Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre	Chancellory
Department	<i>Seksyen Kokurikulum, Elektif Luar Fakulti dan TITAS (SKET)</i>
Programme	University Courses
Course Code*	GIG 1002
Course Title*	Ethnic Relations
Course Pre-requisite(s)/ Minimum Requirement(s)	Not Relevant
Student Learning Time (SLT)*	80 hours
Credit*	2
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Apply the principles and concepts of ethnic relations theory. (C3) 2. Make it clear exposition with confidence. (P2, CS3) 3. Demonstrate active participation and the ability to cooperate in grouping activities. (A2, CS6, TS2) 4. Demonstrate ability to seek, explain, analyze and assess various talks and edicts rather than the source. (CT3)
Transferable Skills	Not applicable
Synopsis of Course Contents	This course will introduce the concept of principles and theory of ethnic relations. This course will also foster communication skills, work teamwork , critical thinking and learning spirit quest and stewardship among students through the edicts on individual tasks, exposition and group activities .
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	<p>Lecture, Field Works</p> <p>Communication Skills, Critical Thinking and Problem-Solving Skills, Teamwork Skills</p>
Assessment Weightage*	<p>Continuous Assessment: 70%</p> <p>Final Examination:30%</p>
Methodologies for Feedback on Performance	Result showed on SPeCTRUM
Criteria in Summative Assessment	Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre Department	Chancellory <i>Seksyen Kokurikulum, Elektif Luar Fakulti dan TITAS (SKET)</i>
Programme	University Courses
Course Code* Course Title*	GIG 1003 Basic Entrepreneurship
Course Pre-requisite(s)/ Minimum Requirement(s)	Not Relevant
Student Learning Time (SLT)* Credit*	80 hours 2
Course Learning Outcomes*	At the end of this course, students are able to: <ol style="list-style-type: none"> 1. Identify opportunities. (C1,A1) 2. Develop a business plan. (A2,C2,P3) 3. Demonstrate the ability to manage time and resources. (A3,P3) 4. Apply creativity and innovation in entrepreneurship. (A3,C3)
Transferable Skills	Business plan writing skills. Critical Thinking and Problem-Solving Skills, Entrepreneurial Skills, Professional Ethics and Moral.
Synopsis of Course Contents	This course will try to inculcate the basic elements of entrepreneurship for all students. This initiative was taken to open the mind and stimulate the entrepreneurial spirit in potential target groups. Among the topics that will be covered include the concept and development of entrepreneurship, the importance of entrepreneurship, factors that encourage enterprising, entrepreneurship development in Malaysia, creativity and innovation in entrepreneurship, business opportunities, the ability to start a business, business planning and business project management skills. In addition, this course also gives students training is more meaningful and effective about the realities of the business world.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lecture, Seminar, Conference, Case Study.

Assessment Weightage*	Continuous Assessment: 100%
Methodologies for Feedback on Performance	Result showed on SPeCTRUM
Criteria in Summative Assessment	Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Centre Department	Library
Programme	Bachelor of Dental Surgery Programme
Course Code* Course Title*	GIG 1004 Information Literacy
Course Pre-requisite(s)/ Minimum Requirement(s)	Not relevant
Student Learning Time (SLT)* Credit*	Face to Face: 28 Guided Learning: 18 Independent Learning:30 Assessment:4 Total:80 2
Course Learning Outcomes*	At the end of the course, students are able to: 1. State the various information and reference sources (C1). 2. Identify information from various sources such as OPAC (Online Public Access Catalogue), Online Databases and Internet (C2). 3. Prepare list of references based on the APA (American Psychological Association) / Vancouver / CSLW (Citation Style for Legal Works) citation style (C3)
Transferable Skills	Information searching. Critical Thinking and Problem-Solving Skills & Lifelong Learning and Information Management.
Synopsis of Course Contents	This course focuses on the use of basic reference sources in print and electronic format, effective information search strategy, information evaluation and preparing reference list.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Exercise

Assessment Weightage*	Continuous Assessment: 50% (1 test and 1 project) Final Examination : 50%
Methodologies for Feedback on Performance	Marks obtained through continuous assessment will be displayed on the notice board or via course web site. Final result will either be PASS (Grade S) or FAIL (Grade U).
Criteria in Summative Assessment	Refer to the Universiti of Malaya (First Degree Studies) Rules 2006 and Universiti of Malaya (First Degree Studies) Regulations 2006 And the website: www.umlib.um.edu.my/gxexweb

Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1005 Mastering English IV
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of the course, students are able to: 1. Produce simple connected texts on familiar topics 2. Describe experiences and events 3. Determine the main points in short texts
Transferable Skills	None
Synopsis of Course Contents	This course is designed to improve students' English Language proficiency in terms of grammatical accuracy and language skills at the pre-intermediate level. Students will be exposed to a variety of reading texts in order to improve their reading skills. Students will also be given ample speaking practice to develop their confidence in communicating and interacting with others in a multitude of situations. The course will also improve students' basic skills in writing sentences and paragraphs.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, interactive learning, paired interaction and class discussion
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 60% Final Examination: 40% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1006 Mastering English V
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1005 (Mastering English IV)
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of the course, students are able to: 1. Produce clear connected texts on familiar topics 2. Explain ideas and opinions clearly and coherently 3. Interpret the main points in short texts
Transferable Skills	None
Synopsis of Course Contents	This course is designed to improve students' English Language proficiency in terms of grammatical accuracy and language skills at the intermediate level. Students will be exposed to a variety of reading texts in order to improve their reading skills. Students will also be given ample speaking practice to develop their confidence in communicating and interacting with others in a multitude of situations. The course improves students' skills in writing paragraphs and essays.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, class discussion, paired interaction and interactive learning
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 60% Final Examination: 40% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1007 Essential Writing Skills
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1005 (Mastering English IV)
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of the course, students are able to : 1. Produce a variety of grammatically and structurally correct sentences. 2. Write different types of paragraphs coherently and cohesively. 3. Organise paragraphs into essays.
Transferable Skills	None.
Synopsis of Course Contents	This course introduces the process of paragraph development and the generation of ideas in order to write within a variety of rhetorical patterns. It focuses on accurate and organised structures in writing. The course helps students to understand the relationship between paragraphs in an essay.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, interactive learning, paired interaction, class and group discussions.
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 60% Final Exam : 40% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1008 Effective Communication
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1005 (Mastering English IV)
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of the course, students are able to: 1. Present ideas clearly, accurately and spontaneously. 2. Discuss topics of current interest 3. Employ appropriate communication strategies to converse effectively and accurately.
Transferable Skills	None.
Synopsis of Course Contents	This course focuses on speaking English accurately and coherently. It also develops students' communication skills and strategies that enable them to interact appropriately and accurately. Students will learn to speak accurately using the appropriate language strategies in a variety of informal situations.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, interactive learning, paired discussion and class discussion.
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 100% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1009 Mastering English VI
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of the course, students are able to: 1. Construct clear, detailed texts on a wide range of subjects 2. Interact fluently and spontaneously 3. Analyse main ideas of complex texts on concrete topics
Transferable Skills	None
Synopsis of Course Contents	This course is designed to fortify students' English Language proficiency in terms of accuracy and effectiveness at a developing upper intermediate level. Students will be taught the four language skills with a focus on accurate language use in reading, writing and speaking. The students will be exposed to a variety of texts to develop a higher level of proficiency that will allow them to apply the skills learnt
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, group discussion, paired interaction, class discussion and interactive learning

<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 60%</p> <p>Final Examination: 40%</p> <p>Feedback for assessments will be provided throughout the course.</p> <p>Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.</p>
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Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1010 Mastering English VII
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1009 (Mastering English VI)
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of the course, students are able to: 1. Construct clear, detailed texts explaining viewpoints 2. Express a viewpoint on a topical issue 3. Analyse main ideas of complex texts on abstract topics
Transferable Skills	None
Synopsis of Course Contents	This course is designed to raise students' English Language proficiency in terms of accuracy and effectiveness to an upper intermediate level. Students will be taught the four language skills with a focus on accurate language use in reading, writing and speaking. The students will be exposed to a variety of higher level texts to develop a higher-level of proficiency that will allow them to apply the skills learnt
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, interactive learning, paired interaction, group discussion and class discussion
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 60% Final Examination: 40% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1011 Technical Writing Skills in English
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1009 (Mastering English VI)
Student Learning Time (SLT)* Credit*	120 hours 3
Course Learning Outcomes*	At the end of the course, students are able to: 1. Determine audiences and purposes for written documents 2. Write appropriate messages for brief correspondence 3. Complete informal reports 4. Prepare a formal problem-solution report
Transferable Skills	None
Synopsis of Course Contents	This course will introduce students to effective technical writing skills. Using materials related to the workplace, students will be taught in stages to write a variety of technical documents.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, paired interaction, project work, class and group discussions
Assessment Methods* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 100% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013,

Academy/Faculty/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1012 Presentation Skills in English
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1009 (Mastering English VI)
Student Learning Time (SLT)* Credit*	120 3
Learning Outcomes*	At the end of the course, students are able to: <ol style="list-style-type: none"> 1. Build relevant speech outlines for different presentations based on research. 2. Determine appropriate skills and strategies when delivering impromptu speeches to a selected audience. 3. Integrate appropriate skills and strategies when delivering prepared speeches to a selected audience.
Transferable Skills	None
Synopsis of Course Contents	The course encompasses different aspects of communication used in delivering effective oral presentations. Appropriate examples from a variety of situations are used as practice materials for students to analyse, discuss and apply the communication strategies taught.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorials, class discussion, interactive learning
Assessment Methods* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 100% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1013 Reading Critically
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed GLT1009 (Mastering English VI)
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of this course, students are able to: <ol style="list-style-type: none"> 1. Explain explicit or implicit textual ideas 2. Analyse a writer's position 3. Integrate ideas from multiple sources and perspectives critically
Transferable Skills	None
Synopsis of Course Contents	This course aims at developing students' critical reading skills. Students will acquire the ability to analyse a piece of writing in fine detail and the author's argumentative strategy and style. Students will also learn to evaluate information in an unbiased way, and be able to differentiate between sound and unsound evidence. To this end, students will be exposed to strategies for reading critically and will engage with a variety of reading selections which will develop and enhance their thinking skills via active discussions and presentations.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorials, class discussion, group discussion, interactive learning.

<p>Assessment Methods*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment : 60% Final Exam: 40%</p> <p>Feedback for assessments will be provided throughout the course</p> <p>Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.</p>
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Programme	University Course
Course Code* Course Title*	GLT1014 Advanced Communication Skills
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of this course, students are able to: <ol style="list-style-type: none"> 1. Integrate the effective use of language structures in communication 2. Develop appropriate interpersonal communication skills in small group discussions 3. Create a persuasive presentation
Transferable Skills	None
Synopsis of Course Contents	This course aims to develop advanced communication skills among students when delivering presentations and interacting in group discussions in diverse settings. Students will prepare and deliver organized, impactful presentations on a variety of topics using appropriate language, style and structure to engage the audience. Students will also be exposed to different communication strategies to enable them to interact effectively and communicate with clarity in collaborative discussions.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, discussion, group interaction, interactive learning
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 100% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre Department	Faculty of Languages and Linguistics Language Unit
Programme	University Course
Course Code* Course Title*	GLT1015 Advanced Professional Writing
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)* Credit*	120 3
Course Learning Outcomes*	At the end of this course, students are able to: 1. Demonstrate the ability to apply appropriate features of effective writing. 2. Develop documents common in business writing genres. 3. Write up on a research-based project.
Transferable Skills	None
Synopsis of Course Contents	This course is designed to equip students with the necessary writing skills to meet the needs of the workplace. Students will also be taught to produce clear, accurate and well organised professional business documents. Students will be required to analyse and respond to a variety of situations and to write for identified audiences. The course also explores the ways in which technology helps shape business writing and communication.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Tutorial, class discussion, group interaction and project work
Assessment Weightage* Methodologies for Feedback on Performance Criteria in Summative Assessment	Continuous Assessment: 100% Feedback for assessments will be provided throughout the course. Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/Centre	Chancellery
Department	Centre for the Initiation of Talent and Industrial Training (CITra)
Programme	University Course
Course Code*	GXEX1413/GIG1006
Course Title*	Introduction to Malaysia
Course Pre-requisite(s)/ Minimum Requirement(s)	None
Student Learning Time (SLT)*	80 hours
Credit*	2
Course Learning Outcomes*	At the end of the course, students are able to: <ol style="list-style-type: none"> 1. Explain history, administrative structure of the government and the Constitution of Malaysia. 2. Explain the way of life, values and culture of various ethnic groups in Malaysia. 3. Demonstrate interpersonal skills and teamwork.
Transferable Skills	None
Synopsis of Course Contents	This course will explain the history of Malaya and the formation of Malaysia. It will also discuss the administrative structure and system of the government guided by the Constitution of Malaysia. Students will learn the culture and values of different ethnic groups, and their shared vision for a united and integrated Malaysian nation.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lecture, fieldtrip and fieldwork

Assessment Weightage*	Continuous Assessment: 70% Final Examination: 30%
Methodologies for Feedback on Performance	Results will be displayed on the notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (First Degree) Rules 2013 and the Universiti Malaya (First Degree) Regulations 2013.

Academy/Faculty/Institute/ Centre	Dentistry
Department	Community Oral Health & Clinical Prevention
Programme	Bachelor of Dental Surgery
Course Code* Course Title*	DIA 2001 Community Dentistry I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed First Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)* Credit*	54 Not applicable
Course Learning Outcomes*	At the end of this course, students are able to:- <ol style="list-style-type: none"> 1. Explain the terminologies in social and behavioural sciences, concepts of health and disease and their implications to behaviour, disease control and prevention in dentistry.(C3) 2. Apply the specific theories of health behaviour in dental practice.(C3) 3. Discuss the general health beliefs and practices of the major ethnic groups in Malaysia and the impacts which support or negatively affect oral health.(C4,A3) 4. Discuss the importance of effective communication and building relationships and the different models of dentist-patient communication.(C4,A3) 5. Explain the concept of need and demand for dental services and identify the barrier to utilization of dental services.(C4) 6. Discuss the role and management of pain, fear, anxiety and stress in relation to dentistry. (C3,A3)
Transferable Skills	None
Synopsis of Course Contents	This module covers broad interrelated areas which affect human behaviours viz. Sociology, psychology and cultural anthropology. The purpose of the module is to make students realize the importance of culture and the social environment in determining behaviour and health outcomes. Students learn about basic concepts and theories in Social and Behavioural Science and their application in dentistry specifically to support desired behaviour change, disease control and prevention.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials

Assessment Weightage*	Continuous Assessment : 40% Final Examination : 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/ Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 2002
Course Title*	Oral & Maxillofacial Imaging I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed First Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)* Credit*	42 Not applicable
Course Learning Outcomes*	At the end of this course, students are able to:- 1. Describe the historical background of X-ray production (C2). 2. Analyse the causes why X-rays are considered hazardous (C4,A3). 3. Recognize factors that improves quality and quantity of X-ray (P3) 4. Demonstrate the capability to undertake protection during X-ray exposure (P3,A3).
Transferable Skills	Ability to identify and use safely dental and maxillofacial imaging technology for specific purposes in a clinical setting within the manufacturers' specifications and safety requirements.

Synopsis of Course Contents	Students are taught about basic structure of atoms, production of X- rays, interaction of X-rays with matter, factors contributing to quality and quantity of X-rays, hazards and risks associated with X-rays and protection against X-ray radiation.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures
Assessment Weightage*	Continuous Assessment : 40% Final Examination : 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 2003
Course Title*	Dental Materials & Dental Technology
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed First Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	Total: 1170 hours
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply related health safety principles while working in the laboratory. (P3,A3) 2. Describe the characteristics of dental materials and their compositions. (C2) 3. Perform procedures with a proper manipulation of materials and techniques for restorative dentistry with adequate manual dexterity. (C3,P3) 4. Compare the properties of various dental materials relation to its clinical application. (C4)
Transferable Skills	Ability to identify the most suitable dental material to use for a specific purpose and manipulate the materials in a clinical setting within the manufacturers' specifications and safety requirements.
Synopsis of Course Contents	Both components of Dental Materials and Dental Technology of this course give knowledge, understanding and skills in using and selecting materials used in dentistry. In addition, correct handling and manipulation of materials are taught. The Conservative Dentistry, Prosthetic Dentistry & Periodontology Disciplines are responsible for Operative Techniques, Dental Technology.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Reflective Sessions, Practicals, PBL

Assessment Weightage*	Continuous Assessment : 40% Final Examination : 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Patologi (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA 2004
Course Title*	Pathology
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed First Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)* Credit*	190 Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate understanding the facts, concepts and basic theories of pathology (C2) 2. Use facts, concepts and basic theories of pathology (C3) 3. Recognise the pathological changes in the microscopic and macroscopic levels. (C3) 4. Analyse the pathological changes in the microscopic and macroscopic levels. (C3) 5. Integrating the knowledge gained from basic medical science and clinical medicine and dentistry studies into pathology. (C3) 6. Demonstrate understanding the capabilities and limitations of morphologically pathological in its contribution to the field of medicine, dentistry and biological research. (C2)
Transferable Skills	Tiada
Synopsis of Course Contents	Students will be taught the basic principles of pathology and its applications relevant to the practice of Dentistry through lectures, tutorials and practicals.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorial

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Mikrobiologi Perubatan (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA 2005
Course Title*	Medical Microbiology
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed First Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	161
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Describe important pathogens and laboratory tests for diagnosis of infectious diseases. (C2) 2. Relate diseases, causative organisms, pathogenesis and body's response to microbial infections. (C3) 3. Apply knowledge in the field of medical microbiology to prevent healthcare-related diseases. (C3, P3, A3) 4. Interpret the investigation findings for microbial infection of relevance to Dentistry. (C2, P3) 5. Evaluate practice in dentistry to ensure effective infection control. (A3, P3)
Transferable Skills	Ability to identify microbes that affect normal human physiological processes, functions and systems in a diseased body.
Synopsis of Course Contents	Students will be taught the basic principles of medical microbiology and its applications relevant to the practice of Dentistry through lectures, tutorials and practicals.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Practicals

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Farmakologi (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA 2006
Course Title*	Pharmacology
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed First Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	228
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate understanding of pharmacological principles of drugs and their action. (C2) 2. Describe the pharmacological properties and therapeutic uses of various drug groups which are prescribed by a dental surgeon or by a patient's medical practitioner that directly impinge upon dental treatment. (C2) 3. Interpret data from the laboratory small animal experiment to enhance the understanding of the pharmacological concept. (C4,P3)
Transferable Skills	Ability to identify and safely prescribe drugs used in Dentistry based on patients' needs and conditions, to maximise its benefits and minimise risks and side-effects.
Synopsis of Course Contents	This course is designed to introduce the basic principles of pharmacology to enable students to be aware of the use of pharmaceutical agents relevant to dentistry, and be able to use pharmaceutical agents appropriately and safely.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Practicals

Assessment Weightage*	Continuous Assessment : 40% Final Examination : 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Community Oral Health & Clinical Prevention
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3001
Course Title*	Community Dentistry II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	219
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply the philosophy and concept of prevention, Total Patient Care (TPC) and Minimal Intervention Dentistry (MID) in patient management and community prevention programs. (C3, P3, A3) 2. Describe the mode of fluoride delivery including the evidence, history, public health issues and challenges of water fluoridation as a preventive measure in oral health at community and individual levels. (C3, P3, A3) 3. Describe the role of plaque in oral health and its control as a preventive measure. (C3) 4. Apply the role and management of diet (in particular sugars) and smoking cessation in the dental practice and health promotion. (C3, P3, A3) 5. Apply the concept and principles of planning and evaluation, Primary Health Care Approach (PHCA), Oral Health Promotion (OHP) and Oral Health Education (OHE) in dental practice, oral health programme and promotion. (C4, A3,P3) 6. Describe the principles and methods of oral epidemiology and biostatistics and its application in dentistry. (C4, P3)
Transferable Skills	None
Synopsis of Course Contents	<p>The course in Year 3 covers Principles of Epidemiology and Oral Epidemiology, Health Promotion and Oral Health Education, Preventive Dentistry and Biostatistics. Theoretical aspects and their applications are emphasized both in the class as well as in practical classes and in the</p>

	<p>clinics.</p> <p>The concepts and theories underpinning dentist-patient relationship are revisited through a series of practical classes and skills laboratory.</p> <p>Students learn how to manage the patient's oral hygiene, diet and smoking in the Clinic as part of their patient's total care.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demonstrations, Practicals, Clinical.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40%</p> <p>Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades at student's board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code* Course Title*	DIA 3002 Oral & Maxillofacial Imaging II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	123
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Describe techniques and film processing factors that influence image quality and ensure radiation hygiene (C2, P3, A3) 2. Prescribe appropriate intraoral and/or panoramic radiographs based on clinical findings, medical history and chief complaint and capable of suggesting advanced imaging modalities. (P3) 3. Demonstrate projections for: periapical radiography, substituting bisecting angle technique or bitewings; maxillary/mandibular occlusal projections; panoramic and extra oral. (P3) 4. Apply appropriate infection control procedures to prevent transmission of infections (P3, A3) 5. Identify normal hard and soft tissue anatomy and common variations in intraoral and panoramic projections. (P3) 6. Interpret caries, periodontal disease, periapical disease and other common osseous and dental abnormalities in radiographs. (P3)
Transferable Skills	Ability to interpret findings of intraoral and extraoral radiographic films, based on clinical findings, medical history and chief complaint, to arrive at a proper diagnosis.
Synopsis of Course Contents	<p>Students are taught the procedures to take both intraoral and extraoral radiographs safely and effectively. They will learn about films, the processing techniques and factors contributing to poor quality radiographs.</p> <p>They also learn about the uses of advanced imaging modalities like digital imaging, Computer tomography, Cone-Beam CT, MRI, radioisotope imaging and ultrasound.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Demonstrations, Practicals & Clinical
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code* Course Title*	DIA 3003 Operative & Endodontic I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	262
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate ability to diagnose and plan restorative treatment to treat dental caries and associated conditions using the latest techniques for restoration of teeth. (C4, P3) 2. Recognise the importance of practicing infection control procedures so that cross infection from the patients can be prevented. (P3, A3) 3. Recognize appropriate actions in preventing diseases, trauma to the teeth, pulp and surrounding tissues. (P3) 4. Manipulate devices, instruments and materials for simple operative and endodontic procedures. (P3) 5. Demonstrate appropriate level of clinical skills in performing simple operative and endodontic procedures. (P3,A3) 6. Follow the prescribed clinical procedures and infection control guidelines during restorative treatment. (P3, A3)
Transferable Skills	Skills obtained in earlier years (Pre-Clinical Years / Basic Medical Sciences) are utilized in the latter years (Clinical) in increasing levels of complexity and clinical applications.
Synopsis of Course Contents	This course covers aspects of caries management; moisture control; infection control; introduction to the clinic; examination and diagnosis; aesthetics dentistry; conservation of pulp vitality; emergency treatment of dental problems; and root canal treatment.

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Demonstrations, Practicals, Clinical.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Display of test results, coursework & clinical grades, post-examination reviews, direct feedback in clinics, labs, classes, seminars & tutorials, discussion with lecturers, mentor-mentee program.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3004
Course Title*	Oral Pathology & Oral Medicine I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	128
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Identify different pathological conditions and lesions in the orofacial region. (P1) 2. Recognize clinical, radiological and histopathological features of orofacial diseases. (C1) 3. Relate the histopathological features with the clinical presentation of orofacial diseases. (P1) 4. Apply relevant examination techniques in order to arrive at a diagnosis. (C3, A3)
Transferable Skills	Ability to identify, diagnose and undertake dental investigation procedures (including clinical, radiological and histopathological investigations) in order to manage and treat oral diseases.
Synopsis of Course Contents	<p>Students are taught clinico-pathological characteristics of a wide range of orofacial diseases through lectures, tutorials and resource sessions.</p> <p>They are taught about orofacial conditions and lesions that affect the oral and perioral regions and the pathological basis for these diseases. The resource sessions teach the histopathological/ microscopic characteristics of selected groups of oral diseases.</p> <p>The students will appraise the history and clinical findings related to the case studied, be able to arrive at a diagnosis and plan the treatment of these diseases.</p> <p>Through demonstrations during resource sessions, students will be able to synthesise the knowledge acquired and apply it through case-studies and present their findings.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demonstrations & Resource sessions.

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Display of test results, coursework & clinical grades, post-examination reviews, direct feedback in clinics, labs, classes, seminars & tutorials, discussion with lecturers, mentor-mentee program.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Faculty of Dentistry
Department	Restorative
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3005
Course Title*	Periodontology I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	173
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Identify different types of periodontal diseases. (C2, P2) 2. Describe the aetiology, pathogenesis and the risk factors of periodontal diseases. (C2) 3. Classify the various forms of periodontal diseases. (P2) 4. Diagnose gingivitis and early chronic periodontitis. (P3) 5. Apply correct judgment and skill in arriving at an appropriate treatment plan for these diseases. (P3, A3) 6. Evaluate the success of treatment. (P3, A3)
Transferable Skills	Ability to identify, diagnose and undertake dental investigation procedures (including clinical, radiological and histopathological investigations) in order to manage and treat periodontal diseases.
Synopsis of Course Contents	<p>This course starts in Year 3 with introduction into the field of Periodontology through lectures/ tutorials/ and practical/clinical sessions that extend through Years 4 & 5.</p> <p>Students are taught the basic principles of Periodontology including aetiology, pathogenesis, recognition and treatment.</p> <p>They are trained to take history, perform clinical examination, diagnose, plan and institute initial treatment.</p> <p>They would also be introduced to other modalities of periodontal treatment for which patients need to be referred for specialist attention.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demonstrations, CBL.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Paediatric Dentistry and Orthodontic
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3006
Course Title*	Paediatric Dentistry I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	Total: 167 hours Not
Credit*	Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate understanding of growth and development and relate this knowledge to the management of the child patient in the clinic. (C4, P3, A3) 2. Formulate appropriate treatment plans and manage child patients accordingly. (C4, P3, A3) 3. Diagnose dental caries and other dental treatment needs of patients in the primary, mixed and early permanent dentition stages. (P3) 4. Practice ethical values and patient's confidentiality in managing patients. (A3)
Transferable Skills	Ability to design a treatment plan, manage and treat child dental patients.
Synopsis of Course Contents	<p>This course comprises of lectures, seminars, practical and clinical sessions where the students are taught:</p> <ul style="list-style-type: none"> • growth and development and behaviour management in children • diagnosis and management of caries in primary and immature permanent teeth, including pulp therapy for primary and immature permanent teeth • diagnosis and management of dental anomalies, common soft tissue lesions and traumatic injuries to teeth in children • eruption and exfoliation of teeth, related problems and their management.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Demonstrations, Practicals, Clinical.

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Faculty of Dentistry
Department	Department of Paediatric Dentistry and Orthodontic
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3007
Course Title*	Orthodontics I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	133
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Differentiate cases which are treatable from those which need referral to the orthodontic specialists. (C4, P3, A3) 2. Treat orthodontic patients with removable appliances. (P3, A5) 3. Diagnose orthodontic patients and formulate a treatment plan. (P3, A3) 4. Interpret evidence-based practice from available resources. (P3) 5. Practice ethical values and patient's confidentiality in managing patients. (A5)
Transferable Skills	
Synopsis of Course Contents	<p>The course in orthodontics comprises lectures, seminars, tutorials, practical and clinical sessions. Students will be taught:</p> <ul style="list-style-type: none"> • dentofacial development and formation of the occlusion • orthodontic malocclusions and its aetiology • patient management and records • principles of removable appliances • the role of extraction in orthodontics • use of extra oral forces with removable appliances • tissue changes with tooth movement • retention and relapse • interceptive orthodontics

	<ul style="list-style-type: none"> • orthodontic appliances, its components, associated patient management and management problems • combined orthodontic treatment with orthognathic surgery • management of crossbite, impacted canines and incisors
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demonstrations, Practicals & Clinics.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/ coursework grades.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3008
Course Title*	Prosthodontics I
Course Pre-requisite(s)/ Minimum Requirement(s)	Have passed Second Professional Examination for the Degree of BDS
Student Learning Time (SLT)*	233
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply basic principles in the selection and utilization of appropriate dental materials, instruments and therapeutic agents in the management of prosthodontics patients. (C4, P3) 2. Describe indications for various treatment options in fixed and removable prosthodontics and to diagnose and refer patients with complex prosthodontic needs to appropriate specialist (A3, P3) 3. Select appropriate treatment plan based on sound clinical judgement and scientific evidence (P3, A3) 4. Demonstrate adequate skills in the treatment of patients requiring fixed and removable prostheses and carry out appropriate post insertion care and maintenance (P3, A3) 5. Evaluate the success of the treatment rendered taking into consideration the patient's satisfaction in terms of function and aesthetics. (P3, A5)
Transferable Skills	Ability to design a treatment plan, manage and treat patients who need partial and complete dentures.

Synopsis of Course Contents	<p>The course aims to provide an understanding of specific aspects of Prosthodontic removable dentures for the clinical treatment of patients. This includes also a comprehensive understanding of the relevant dental materials to be used.</p> <p>This course covers the restoration of mastication, appearance and speech by making prosthesis, fitting and follow-up treatment.</p> <p>These include others in relation to complete edentulous patients.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Demonstrations, Practicals & Clinical,
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Oro-maxillofacial Surgical and Medical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3009
Course Title*	Oral and Maxillofacial Surgery I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	289
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Describe in detail the different types of local anaesthesia (LA) used in dentistry.(C3) 2. Choose the correct instruments and use the correct exodontia technique under local anaesthesia. (C4,P3) 3. Carry out effective local anaesthetic administration and exodontia under local anaesthesia. (P3,A3) 4. Manage common complications related to the use of LA, including emergency cardio-pulmonary resuscitation or CPR. (P3,A3)
Transferable Skills	Ability to design a treatment plan, manage and treat patients who need tooth extractions using local anesthesia. Ability to manage emergency life-threatening situations including performing CPR.
Synopsis of Course Contents	<p>In the First Semester, students will be taught the following:</p> <ol style="list-style-type: none"> 1. Pharmacology and effects of various types of anaesthesia and local anaesthetics. 2. Anatomy of jaw bones and oral cavity, injection techniques and alternative techniques to achieve local anaesthesia. 3. Clinical examination techniques including medical and dental history taking. 4. Types of forceps, elevators and instruments commonly used for tooth extractions, its uses and correct techniques. 5. Introduction to common complications related to LA and tooth extractions. 6. Introduction to correct infection control procedures. In the Second Semester:

	<ol style="list-style-type: none"> 1. Clinical examination including dental and medical history taking. 2. Correct techniques of exodontia under LA. 3. Identify and diagnose common complications related to LA and exodontia including its management. 4. Practice of good infection control procedures. 5. Give effective advice to patients who had undergone exodontia. 6. Cardio-Pulmonary Resuscitation (CPR).
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Demonstrations, Practicals, Clinical, PBL
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40%</p> <p>Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3010
Course Title*	General Dental Practice I
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	243
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Record medical, dental and social history and undertake relevant general and oral examination in a range of clinical settings for all categories of patients. (P3) 2. Interpret the significance of the medical, dental and social history to identify necessary courses of action. (P3, A3) 3. Synthesize clinical findings to identify differential diagnosis and appropriate investigation. (P3, A3) 4. Interpret radiograph and results/report from laboratory investigations commonly requested in dentistry. (P3, A3) 5. Formulate a treatment plan appropriate to the patient's condition, circumstances and wishes in which the various components are effectively integrated. (P3, A3)
Transferable Skills	Ability to interpret and understand the significance of the medical, dental and social history and identify necessary courses of action in a treatment plan.
Synopsis of Course Contents	Students will attend the Oral Diagnosis Clinic after an introductory lecture on oral diagnosis. New patients from Primary Care Unit, Faculty of Dentistry will be examined by the students' in General Dental Practice clinics for diagnosis and treatment plan. Patients who need emergency care will be referred to more senior students in the polyclinic.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Clinical

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Surgeri (Fakulti Perubatan)
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3011
Course Title*	Human Diseases (General Surgery)
Course Pre-requisite(s)/ Minimum Requirement(s)	Have passed Second Professional Examination for the Degree of BDS
Student Learning Time (SLT)*	235
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply general surgical principles in relation to head and neck that may affect dental treatment. (C3,P3) 2. Differentiate different head and neck surgical conditions that may affect dental management. (P3) 3. Apply knowledge of surgical principles to assess, compare different investigation options, manage and interpret investigations and choose the most suitable management strategies. (P3,A3) 4. Propose an appropriate management pathway for general surgical conditions, and surgical head and neck conditions. (P3) 5. Apply knowledge when to refer for further management by the surgical teams. (P3) 6. Perform procedure in measuring pulse rate, blood pressure, temperature, examine surgical condition, emergency resuscitation and life support, and responsive to patients' general health conditions.(P3, A3)
Transferable Skills	Ability to perform bedside general clinical examination and interpret findings based on clinical, laboratory, medical history and chief complaint to arrive at a proper diagnosis of common human diseases which require surgical intervention.
Synopsis of Course Contents	<p>The course is designed to give the students a general understanding of basic principles in surgery and conditions related to the head and neck. Emphasis will be on aspects of surgery related to dental practice.</p> <p>These include history taking, clinical examination and</p>

	investigations related to skin lesion, cervical lymphadenopathy, infections, diseases of thyroid, salivary glands, neck lumps, oral conditions related to surgery, parathyroid, nasopharyngeal, venous thrombosis, jaundice, anemia, diabetes, blood & transfusion, cardio-pulmonary resuscitation, airway complications, nosocomial infections, bowel diseases and post-operative complications.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Practicals, Clinical, Hospital Ward Rounds, CPR
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre Department	Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 3012
Course Title*	Human Diseases (General Medicine)
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Second Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)* Credit*	256 Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Explain the basic concepts of common human medical diseases and its underlying patho-physiology and apply this knowledge in the management of dental patients. (C3, P3, A3) 2. Recognize common clinical symptoms and peripheral signs in human medical diseases. (P3) 3. Organise their clinical findings to assess differential diagnoses and reach an appropriate diagnosis. (P3, A3) 4. Evaluate the consequences of common human diseases on the dental management of their patients and vice versa. (P3, A3) 5. Perform bedside general clinical examination including inspection and palpation of the head and neck, upper and lower limbs. (P3, A3)
Transferable Skills	Ability to perform bedside general clinical examination and interpret findings based on clinical, laboratory, medical history and chief complaint to arrive at a proper diagnosis of common human diseases.
Synopsis of Course Contents	<p>This course will teach students how to recognize the symptoms and peripheral signs on patients with common medical diseases for e.g. dyspnoea, cyanosis, jaundice, pallor, cachexia, abnormal pulses, purpura etc.</p> <p>They will be taught to relate to the patient's medical history for important medical diseases e.g. diabetes mellitus, hypertension, heart disease (acquired and congenital), epilepsy, bleeding disorders, stroke etc. which may have a bearing when they treat their patients for dental problems.</p> <p>The students will be taught the consequences of medical diseases on dental procedures and therapy and vice versa</p>

	and to recognize when there they should refer the patient to a physician for further evaluation and treatment. Students will learn to assess their patient as a whole and not to ignore the patients' associated medical conditions.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Demonstrations, clinical teaching, Practicals & clinical, Case Presentations, ward round
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/ Centre Department	Dentistry Community Oral Health & Clinical Prevention
Programme	Bachelor of Dental Surgery
Course Code* Course Title*	DIA 4001 Community Dentistry III
Course Pre- requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)* Credit*	233 Not applicable
Course Learning Outcomes*	At the end of the course, students are able to:- <ol style="list-style-type: none"> 1. Recognise the public health importance of oral health diseases and related implications to the population, oral health care services and appropriate strategies in managing these diseases. (C2, P3, A3) 2. Interpret the problems and public health impacts of target patient groups in relation to their oral and general health. (P3, A3) 3. Interpret the role of the Malaysian Dental Council, Dental Act and the Malaysian legal system in the context of dental practice. (A3) 4. Apply the basic concepts of financing in the oral health care system. (P3, A3) 5. Organize oral health education programs in a selected community and home interviews on the influence of people's socio environmental factors on their oral health. (P5, A3) 6. Appraise evidence in scientific publications for clinical practice, and data management in research. (P3)
Transferable Skills	Ability to plan, implement and evaluate an oral health education and promotion programme.
Synopsis of Course Contents	In Year 4 the student approaches dentistry from the community perspective parallel to individual patient care in the clinic. The population impacts of specific oral conditions are discussed. They also learn about the environment controlling dental practice; dental ethics and jurisprudence and forensic dentistry.

	<p>As part of enhancing their knowledge, attitudes and skills in the social context of their patients, they conduct a behavioural science case study culminating in an evidence- based report. They are also given the opportunity to plan, implement and evaluate an Oral Health Education Programme in selected communities as part of a team.</p> <p>Seminar topics which cover broad topics of current issues in dental public health and preventive dentistry are researched, prepared, led and presented by students working in small groups. The aim is to assist students to consolidate and apply past knowledge and skills acquired throughout Year 2 to Year 4.</p> <p>For prevention in the clinical setting, they will continue the clinical preventive practice from Year 3-5 emphasizing chair side clinical prevention and oral health promotion.</p> <p>At the end of Year 4 the student identifies an area of interest which the student wishes to research further. The student writes a research proposal to investigate the public health issue and continues the research project into Year 5, where the findings will be presented in the Annual Students Scientific Conference to enhance their soft skills.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Group discussion, Practicals, COH Project.
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4002
Course Title*	Oral & Maxillofacial Imaging III
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	84
Credit*	Not applicable
Course Learning Outcomes*	At the end of this course, students are able to:- 1. Review on techniques of taking various radiographic images and identify, evaluate and interpret radiographic changes consistent. (C4, P3) 2. Provide a comprehensive radiological report. (P3) 3. Suggest the need to refer for further advanced imaging modalities. (P3)
Transferable Skills	Ability to interpret findings of intraoral and extraoral radiographic films, based on clinical findings, medical history and chief complaint, to arrive at a proper diagnosis.
Synopsis of Course Contents	Revision of the course in third year so that their clinical knowledge in imaging is enhanced.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Practicals, Clinical
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4003
Course Title*	Operative & Endodontic II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	429
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate ability to diagnose and plan restorative treatment to treat dental caries and associated conditions using the latest techniques for restoration of teeth. (P3) 2. Recognise the importance of practising infection control procedures so that cross infection from the patients can be prevented. (A3) 3. Take appropriate actions in preventing diseases, trauma to the teeth, pulp and surrounding tissues. (P3,A3) 4. Display appropriate level of skills in performing endodontic and complex operative procedures. (A3, P3) 5. Select the appropriate treatment procedures based on sound clinical judgement and scientific evidence.(P3, A3)
Transferable Skills	Ability to perform endodontic and complex operative procedures.
Synopsis of Course Contents	The course in Year 4 involves caries management; moisture control; infection control; introduction to the clinic; examination and diagnosis; aesthetics dentistry; conservation of pulp vitality; emergency treatment of dental problems; root canal treatment. It will continue to Year 5 to enhance students' clinical skills through daily clinical practice under constant supervision by lecturers.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Demos, Practicals, Clinical.

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4004
Course Title*	Oral Pathology & Oral Medicine II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	135
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate clinical, radiological and histopathological features of oral diseases. (C3, P4) 2. Interpret the pathological and clinical findings of oro-facial diseases. (C3) 3. Perform relevant examination techniques in order to arrive at a diagnosis. (P3) 4. Discuss the underlying principles of management of oro-facial diseases. (P3) 5. Apply correct clinical judgement in treatment planning of orofacial diseases. (P3, A3)
Transferable Skills	Ability to identify, diagnose and undertake dental investigation procedures (including clinical, radiological and histopathological investigations) in order to manage and treat orofacial diseases.
Synopsis of Course Contents	<p>Students are taught the basic principles of history taking and clinical examination techniques through lectures, tutorials and clinical sessions.</p> <p>They are taught orofacial conditions and lesions and the relevant systemic diseases with oral manifestations.</p> <p>In the clinics, they would have demonstrations followed by hands-on training in history taking and examination.</p> <p>They will appraise the various orofacial conditions relevant to the clinical findings, to arrive at an appropriate diagnosis.</p> <p>Through role-modelling, they will simulate sensitivity when managing patients as well as develop good ethical conduct.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Resource sessions, Clinical, CBL
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination : 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4005
Course Title*	Periodontology II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)	205
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Identify different types of Periodontal Diseases (C2,P1) 2. Describe the aetiology, pathogenesis and the risk factors of Periodontal Diseases. (C2) 3. Classify the various forms of Periodontal Diseases. (P2) 4. Diagnose Gingivitis and Early Chronic Periodontitis. (P3) 5. Apply correct judgment and skill in arriving at an appropriate treatment plan for these diseases. (P3,A3) 6. Evaluate the success of treatment. (P3, A3)
Transferable Skills	Ability to identify, diagnose and undertake dental investigation procedures (including clinical, radiological and histopathological investigations) in order to manage and treat periodontal diseases.
Synopsis of Course Contents	<p>This course, which started in Year 3, will continue in Years 4 & 5 - through lectures/tutorials and practical/clinical sessions, with increasing levels of clinical complexity. Students are taught the basic principles of Periodontology including aetiology, pathogenesis, recognition and treatment. They are trained to take history, perform clinical examination, diagnose, plan and institute initial treatment.</p> <p>They would also be introduced to other modalities of periodontal treatment for which patients need to be referred for specialist attention. In Year 5, the students will continue their clinical practice of Periodontology in the clinics to consolidate and enhance their clinical and psychomotor skills in General Dental Practice.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demos, Clinical, Clinical based learning (CBL)
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Paediatric Dentistry and Orthodontic
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4006
Course Title*	Paediatric Dentistry II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	219 hours
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Demonstrate understanding of growth and development and relate this knowledge to the management of the child patient in the clinic. (C4, P3, A3) 2. Formulate appropriate treatment plans to manage child patients accordingly. (C4, P3, A3) 3. Diagnose dental caries and other dental treatment needs of patients in the primary, mixed and early permanent dentition stages. (P3) 4. Practice ethical values and patient's confidentiality in managing patients. (A3)
Transferable Skills	Ability to design a treatment plan, manage and treat child dental patients.
Synopsis of Course Contents	<p>This course in Year 4 which comprises lectures, seminars, tutorials, practical and clinical sessions is a continuation of the course which started in Year 3 (DIA 3006).</p> <p>The students will further develop and enhance their clinical skills through daily clinical practice on patients.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Clinical,

Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Paediatric Dentistry and Orthodontic
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4007
Course Title*	Orthodontics II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	131
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Differentiate cases which are treatable from those which need referral to the orthodontic specialists. (C4, P3, A3) 2. Use removable appliances to treat orthodontic patients. (P3, A5) 3. Demonstrate the ability to diagnose orthodontic conditions and formulate treatment plans. (P3, A3) 4. Interpret evidence-based practice from available resources. (P3) 5. Practice ethical values and patient's confidentiality in managing patients. (A3)
Transferable Skills	Ability to design a treatment plan, manage and treat patients who need orthodontic treatment, intervention and maintenance.
Synopsis of Course Contents	This course is a continuation of the course which started in Year 3 (DIA 3007). The students will further develop and enhance their clinical skills through daily clinical practice on patients.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Clinical,
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on student's notice board
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 & the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4008
Course Title*	Prosthodontics II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	299
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply basic principles in the selection and utilization of appropriate dental materials, instruments and therapeutic agents in the treatment of complete denture patients (C4, P3) 2. Describe indications for various treatment options in Prosthetic Dentistry (A3, P3) 3. Propose appropriate treatment plan for denture patients. (P3, A3) 4. Demonstrate appropriate skills in the treatment of patients requiring removable prostheses and carry out appropriate post insertion care. (P3, A3) 5. Perform procedures and techniques for fixed prosthodontics with manual dexterity required to perform similar procedures in the fixed prosthodontics programme. (P3, A3)
Transferable Skills	Ability to design a treatment plan, manage and treat patients who need prostheses.
Synopsis of Course Contents	This course is a continuation of the course which started in Year 3 (DIA 3008). The students will further develop and enhance their clinical skills through daily clinical practice on patients.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Demos, Clinical
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on	Feedback in class, discussion with lecturers, display of

Performance	Test/coursework grades on student's notice board
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4009
Course Title*	Oral & Maxillofacial Surgery II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	199
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Manage patients with oral lesions and conditions who require clinical oral surgical procedures. (P3, A3) 2. Identify types of oro-facial infections, spread and its management. (C3, P3) 3. Analyze the need for surgical interventions for lesions, abnormalities of teeth and jaw, level of difficulty and make appropriate referrals if needed. (P3, A3) 4. Apply the principles of emergency management and be able to manage emergencies in the clinic-including basic life support. (P3, A3) 5. Manage trauma to the oro-facial region. (P3, A3)
Transferable Skills	Ability to analyze the need for surgical interventions for lesions, abnormalities of teeth and jaw, assess the level of difficulty and make appropriate referrals if needed.

Synopsis of Course Contents	<p>The course in the 4th year includes:</p> <ol style="list-style-type: none"> 1. Management of impacted third molars. 2. Maxillofacial injuries and early management. 3. Fractures of mandible, maxilla and zygoma. 4. Introduction to general anesthesia and sedation for dental procedures and resuscitation. 5. Management of dental patients with medical complications. 6. Role of surgery in orthodontics, prosthetic and conservative dentistry. 7. Malignant oro-facial lesions, management, clinical presentation and complications. 8. Introduction to orthognathic surgery and management of cleft lip and palate. 9. Lesions of the jaw bones. 10. Implantology – surgical aspects. 11. Management of Oro-facial infections through surgery.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Demonstration, Clinical
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40%</p> <p>Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4010
Course Title*	General Dental Practice II
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	100
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:-</p> <ol style="list-style-type: none"> 1. Perform the history taking (medical, dental & social) and relevant general and oral examination in a range of clinical settings for all categories of patients. (P3, A5) 2. Demonstrate the ability to interpret significance of the medical, dental and social history and necessary course of action. (P3, A1) 3. Demonstrate the ability to summarize and synthesize clinical findings to identify differential diagnosis and to conduct appropriate investigation. (P3, A1) 4. Interpret radiograph and results/report from laboratory investigations commonly requested in dentistry. (P3, A3) 5. Formulate a treatment plan appropriate to the patient's condition, circumstances and wishes in which the various components are effectively integrated. (P3, A3)
Transferable Skills	Ability to Interpret and understand the significance of the medical, dental and social history and identify necessary courses of action in a treatment plan.
Synopsis of Course Contents	Students will perform examination, diagnosis and provide a holistic treatment plan for all new patients.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Clinical & Special Care Dentistry visitation.
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on student's notice board
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Faculty of Dentistry
Department	Dean's Office
Programme	Bachelor of Dental Surgery
Course Code*	DIA 4011
Course Title*	Elective Project
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Third Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	327
Credit*	Not applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Conceptualize a research idea / problem related to dentistry. (A3, P3) 2. Conduct a research project which is appropriate to answer the research problem.(P3, A3) 3. Discuss research findings in a poster or oral presentation format in a scientific meeting and as a research report. (P3) 4. Organize the annual dental student's research conference. (P3)
Transferable Skills	Analyse data using appropriate statistical software, and oral or poster presentation using appropriate audio-visual technology (poster or powerpoint) – in a scientific conference.
Synopsis of Course Contents	Students will be exposed to modules in Research Methodology and Statistics to prepare them to conduct an appropriate research project under the supervision of lecturers based on their preferred elective subject. Two students will be paired with one lecturer. The students will be involved in every stage of the research from formulating the research hypothesis through data collection, analysis and finally writing a research report and presentation. The Faculty will organize an Annual Dental Students Conference for this purpose and select the best research to represent the Faculty at the National Students Conference.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lecture, discussion with supervisor, research, statistical consultation.

Assessment Weightage*	Continuous Assessment: 100%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, evaluation of written report, judging of papers presented at the Annual Students Scientific Conference by a selected panel of judges
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Community Oral Health and Clinical Prevention
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5001
Course Title*	Community Dentistry IV
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	173
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Describe the structure, organization, implementation and resource management of the health and oral health care delivery system in Malaysia at national, state and district levels and their roles, job description and job opportunities. (C4, P3, A3) 2. Apply all the knowledge learned in Year 2-5 in total care of the patient and community as a general dental practitioner in the public healthcare sector. (P3, A3) 3. Demonstrate the ability to apply public health knowledge, values and skills creatively in analyzing and solving healthcare problems as a general dental practitioner in the Malaysian Healthcare System in a safe and ethical manner. (P3, A3) 4. Demonstrate the ability to critically analyse scientific publications, apply the evidence in decision-making in oral healthcare and make effective presentations. (P3, A3)
Transferable Skills	Ability to analyse public health problems affecting the community and propose strategies to overcome them based on scientific evidence within the context of the Malaysian health care delivery system.
Synopsis of Course Contents	<p>In Year 5 the students learn about the organization, implementation and management of the health and oral healthcare system with particular reference to the Ministry of Health. The role of the dentists in the public sector is emphasized.</p> <p>The student will have the opportunity through the Community Oral Health Posting Programme which will be carried out at selected Ministry of Health facilities at the state level all over Malaysia, to observe and enhance their</p>

	<p>public health knowledge and skills and identify job and entrepreneurship opportunities in the field.</p> <p>Classroom learning in Year 5 is mainly through seminars and interactive learning sessions whereby the student as a member of a team working in groups are given the opportunity to analyze different health scenarios, identify health problems, community needs and demands; discuss and propose solutions based on scientific evidence and to present their ideas in PowerPoint presentations for open feedback and discussions. The aim is to enhance their communication skill as well as other related soft skills.</p> <p>At the end of the 5-year course the student is expected to have developed the basic skills and attitude of a lifelong learner as well as have identified potential job and entrepreneurship opportunities.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lecture, Group discussion, Student's posting.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40%</p> <p>Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5002
Course Title*	Operative & Endodontic III
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	242
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Demonstrate ability to diagnose and plan restorative treatment in accordance with the latest techniques for restoration of teeth. (P3) 2. Practice effective infection control procedures so that cross infection from the patients can be prevented. (A3) 3. Take appropriate actions in preventing diseases, trauma to the teeth, pulp and surrounding tissues. (P3, A3) 4. Manipulate devices and materials for endodontic and complex operative procedures. (P3, A3) 5. Demonstrate an appropriate level of clinical skill in performing endodontic and complex clinical operative procedures. (P3, A3) 6. Select the most appropriate treatment procedures based on sound clinical judgement and scientific evidence. (P3, A3)
Transferable Skills	Ability to perform endodontic and complex operative procedures.
Synopsis of Course Contents	<p>This course is a continuation of Year 4 where students consolidate and naturalise their psychomotor and clinical skills by treating patients in the polyclinics setting.</p> <p>The subjects covered are caries management; moisture control; infection control; introduction to the clinic; examination and diagnosis; aesthetics dentistry; conservation of pulp vitality; emergency treatment of dental problems; root canal treatment.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Clinical.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades on the students notice board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Paediatric Dentistry and Orthodontics
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5003
Course Title*	Paediatric Dentistry III
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	184
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Demonstrate understanding of growth and development and relate this knowledge to the management of the child patient in the clinic. (C4, P3, A3) 2. Formulate appropriate treatment plans to manage child patients accordingly. (C4, P3, A3) 3. Diagnose dental caries and other dental treatment needs of patients in the primary, mixed and early permanent dentition stages. (P3) 4. Practice ethical values and patient's confidentiality in managing patients. (A3)
Transferable Skills	Ability to design a treatment plan, manage and treat child dental patients.
Synopsis of Course Contents	This course is a continuation of Year 4 where students consolidate and naturalise their psychomotor and clinical skills by treating patients in the polyclinics setting.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Practicals & Clinical.
Assessment Weightage*	Continuous Assessment (40%) Final Examination (60%)
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades on the student's notice board.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/ Centre	Dentistry
Department	Paediatric Dentistry and Orthodontics
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5004
Course Title*	Orthodontics III
Course Pre- requisite(s)/ Minimum	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	109
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:</p> <ol style="list-style-type: none"> 1. Differentiate cases which are treatable from those which need referral to the orthodontic specialists. (P3, A3) 2. Treat orthodontic patients with removable appliances. (P3, A3) 3. Demonstrate the ability to diagnose orthodontic conditions and formulate treatment plans. (P3, A3) 4. Objectively Interpret objectively evidence-based practice from available resources. (P3) 5. Practice ethical values and patient's confidentiality in managing patients. (A3)
Transferable Skills	Manage and treat patients who need orthodontic treatment, intervention and maintenance.
Synopsis of Course Contents	This course is a continuation of Year 4 where students consolidate and naturalise their psychomotor and clinical skills by treating patients in the polyclinics setting.
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Tutorials, Practicals & Clinical.
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in class, discussion with lecturers, display of test/coursework grades.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5005
Course Title*	Prosthodontics III
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	382
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply basic principles in the selection and utilization of appropriate dental materials, instruments and therapeutic agents in the management of prosthodontic patients. (C4, P4) 2. Describe indications for various treatment options in fixed and removable prosthodontics and to diagnose and refer patients with complex prosthodontic needs to appropriate specialist (A3, P5) 3. Select appropriate treatment plan based on sound clinical judgement and scientific evidence (P5, A3) 4. Demonstrate appropriate skills in the treatment of patients requiring fixed and removable prostheses and carry out appropriate post insertion care and maintenance (P4, A3) 5. Evaluate the success of the treatment rendered taking into consideration the patient's satisfaction in terms of function and aesthetics. (P4, A5) 6. Perform procedures and techniques for fixed prosthodontics with manual dexterity required to perform similar procedures in the fixed prosthodontics programme. (P3, A3)
Transferable Skills	Ability to design a treatment plan, manage and treat patients who need prostheses.
Synopsis of Course Contents	<p>This course is a continuation of the course which started in Year 3. The students will further develop and enhance their clinical skills through daily clinical practice on patients.</p> <p>The course in Year 5 is intended to provide in-depth</p>

	<p>understanding and enhanced skills for clinical treatment of patients requiring prostheses. Introduction to specialty subjects in Prosthetic Dentistry such as Maxillofacial Prosthodontics, Implantology and Temporomandibular dysfunction syndrome is intended to enable the students to make decisions regarding when to refer patients with complex prosthodontic needs to the appropriate specialists. The emphasis is also placed on good communication with dental laboratory technicians and the ability to critically evaluate the quality of the laboratory product of the prostheses.</p>
Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Seminars, Clinical, Case based learning.
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40%</p> <p>Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/coursework grades on the students notice board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

Academy/Faculty/Institute/Centre	Dentistry
Department	Oral and Maxillofacial Clinical Sciences
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5006
Course Title*	Oral & Maxillofacial Surgery III
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time (SLT)*	285
Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of the course, students are able to:-</p> <ol style="list-style-type: none"> 1. Manage patients with oral lesions and conditions who require clinical oral surgical procedures. (P3) 2. Analyze the need for surgical interventions for lesions, abnormalities of teeth and jaw, level of difficulty and make appropriate referrals if needed. (A3) 3. Apply the principles of emergency management and be able to manage emergencies in the clinic. (P3) 4. Manage trauma to the oro-facial region. (P3, A3)
Transferable Skills	Ability to analyze the need for surgical interventions for lesions, abnormalities of teeth and jaw, assess the level of difficulty and make appropriate referrals if needed.

Synopsis of Course Contents	<p>The course in the 5th year includes:</p> <ol style="list-style-type: none"> 1. Management of impacted third molars. 2. Maxillofacial injuries and early management. 3. Fractures of mandible, maxilla and zygoma. 4. Introduction to general anesthesia and sedation for dental procedures and resuscitation. 5. Management of dental patients with medical complications. 6. Role of surgery in orthodontics, prosthetic and conservative dentistry. 7. Malignant oro-facial lesions, management, clinical presentation and complications. 8. Introduction to orthognathic surgery and management of cleft lip and palate. Lesions of the jaw bones. 9. Implantology – surgical aspects. 10. Management of Oro-facial infections through surgery.
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Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, CPR, Practicals, Clinical, Accident & Emergency unit posting, CBL
Assessment Weightage*	Continuous Assessment: 40% Final Examination: 60%
Methodologies for Feedback on Performance	Feedback in the clinic and discussion with lecturers.
Criteria in Summative Assessment	Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.

Academy/Faculty/Institute/Centre	Dentistry
Department	Restorative Dentistry
Programme	Bachelor of Dental Surgery
Course Code*	DIA 5007
Course Title*	General Dental Practice III
Course Pre-requisite(s)/ Minimum Requirement(s)	Passed Fourth Year Professional Examination for the Degree of Bachelor of Dental Surgery
Student Learning Time	223
(SLT)* Credit*	Not Applicable
Course Learning Outcomes*	<p>At the end of this course, students are able to:-</p> <ol style="list-style-type: none"> 1. Apply principles of practice management and clinical protocol in dental practice. (P3, A3) 2. Demonstrate communication and psychomotor skills necessary for providing total patient care in a general practice setting. (P5, A5) 3. Demonstrate sound diagnostic skills to identify and evaluate oral and dental diseases and disorders. (P5,A5) 4. Demonstrate enhancement of clinical skills in restorative dentistry developed by students in the fourth year. (P5,A5) 5. Recognise their own limitations in providing patient care and an understanding of when to refer for further advice and treatment. (A3)
Transferable Skills	Ability to apply principles of practice management and clinical protocol in general dental practice settings and use their clinical skills in providing total patient care.
Synopsis of Course Contents	<p>Series of lectures, seminar, tutorial and journal discussion are conducted throughout the year on practice management and topics of clinical relevance to consolidate their knowledge, clinical skills and internalize professional values and ethics. Clinical practice to perform oral diagnosis, treat emergency cases and as well as routine treatment are done by appointments which are organized like a general dental practice clinic, including mock provisions for clinic financial management.</p>

Learning Strategies (lecture, tutorial, workshop, discussion, etc)	Lectures, Clinical, Posting to private/ government clinic, Presentation report, Tutorials, Seminars, Case presentation
<p>Assessment Weightage*</p> <p>Methodologies for Feedback on Performance</p> <p>Criteria in Summative Assessment</p>	<p>Continuous Assessment: 40% Final Examination: 60%</p> <p>Feedback in class, discussion with lecturers, display of test/ coursework grades on the student's notice board.</p> <p>Please refer to the Universiti Malaya (Bachelor of Dental Surgery) Rules 2021 and the Universiti Malaya (Bachelor of Dental Surgery) Regulations 2021.</p>

PART 4

***LIST OF TEXTBOOKS/
REFERENCES IN PRO FORMA***

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Curriculum BDS 2015

YEAR I

DIA 1001 - ORAL BIOLOGY

List of books that must be included in the course pro-forma:

1. Ten Cate AR (2012). Oral Histology, Development, Structure and Function, 8th Edn. CV Mosby Co.
2. Rickne C. Scheid, Gabriela Weiss (2011) Woelfel's Dental Anatomy: Its Relevance to Dentistry. 8th Edition
3. Berkovitz BKB, Holland GR, Moxham BJ (2009). Oral Anatomy, Histology and Embryology, 4th Edn. Mosby.
4. Stanley J. Nelson (2009) Wheeler's Dental Anatomy, Physiology and Occlusion, 9th edition
5. James K. Avery, Daniel J. Chiego (2006) Essentials of Oral Histology and Embryology, A Clinical Approach. Third Edition.
6. Avery JK, PF Steele (2002). Oral Development and Histology, 3rd Edn. Thieme, Stuttgart, New York.
7. Berkovitz BKB, Holland GR, Moxham BJ (1992). Colour Atlas and Textbook of Oral Anatomy, Histology and Embryology. Wolfe Publishing Ltd.
8. Bath-Balogh M, Fehrenbach MJ (2006). Dental Embryology, Histology and Anatomy. 2nd Edn. Elsevier Saunders.
9. Marsh P, Martin MV (2009). Oral Microbiology, 2nd Edn. Chapman and Hall.
10. Samaranayake LP (2006). Essential microbiology for dentistry. 2nd Edn. Churchill Livingstone, Harcourt Publ. Ltd.
11. Ferguson DB (2006). Oral Bioscience. www.authorsonline.co.uk
12. Cole AS, Eastoe JE (1988). Biochemistry and oral biology. 2nd Edn. Butterworth & Co Publ. Ltd. p452-459.
13. Robert M. Bradley (1995) Essentials Of Oral Physiology Mosby; 2nd edition.
14. Nisengard RJ, Newman MG (1994). Oral Microbiology and Immunology. 2nd Edn. Philadelphia: W.B. Saunders Company.
15. Marsh PD (1994). Microbial Ecology of Dental Plaque and Its Significance in Health and Diseases. Adv. Dent. Res. 8(2):263-271.
16. Yamada Y, Yamamura K, Inoue M Coordination of cranial motoneurons during mastication. Respir Physiol Neurobiol. 2005 Jul 28;147(2-3):177-89. Epub 2005 Apr 19. Review. <http://www.sciencedirect.com/science/article/pii/S1569904805000765>
17. Van der Bilt A, Engelen L, Pereira LJ, Van der Glas HW, Abbink JH. Oral physiology and mastication. Physiol Behav. 2006 Aug 30;89(1):22-7. Epub 2006 Mar 29. Review. <http://www.sciencedirect.com/science/article/pii/S0031938406000382>
18. Jean A. Brain stem control of swallowing: neuronal network and cellular mechanisms. Physiol Rev. 2001 Apr;81(2):929-69. <http://physrev.physiology.org/content/81/2/929.long>

List of reference books:-

1. S.R. Prabhu. Textbook of Oral and Maxillofacial Anatomy, Histology and Embryology (2006). ISBN 0195665112.
2. Bath-Balogh M, Fehrenbech MJ. (2006). Dental Embryology, Histology and Anatomy 2nd Edition. Elsevier Saunders.
3. James K. Avery, Pauline F. Steele (2005). Essentials of Oral Histology and Embryology: A Clinical Approach. 3rd Edition. C.V Mosby Co.
4. Edgar WM, O'Mullane DM (2004). Saliva and Oral Health 3rd Edition. British Dental Association, London.
5. Greeman J. (1999). Microbial aetiology of halitosis. In: Dental Plaque Revisited, Neuman HN, Wilson M., Eastman Dental Institute, University College London.
6. Zubaidah Hj Abd Rahim (1995). Biologi Kolagen. Dewan Bahasa dan Pustaka, KK 610-7253410
7. Zubaidah Haji Abdul Rahim (1992). Karbohidrat: Kimia dan Metabolismenya. Dewan Bahasa dan Pustaka. KK 547-5235 4101
8. Zubaidah Haji Abdul Rahim (1992). Pemakanan: Pendekatan Dari Segi Biokimia. Dewan Bahasa dan Pustaka. KK 610-5898 4101
9. Ash MM, Nelson S (2002). Dental Anatomy, Physiology and Occlusion, 8th Edition. Philadelphia: WB Saunders.
10. Nisengard RJ, Newman MG. (1994). Oral Microbiology and Immunology 2nd Edition. Churchill Livingstone, Harcourt Publishers Ltd.
11. Robert L. Pollack (1985). Nutrition in Oral Health and Disease. Lea & Febiger
12. Jenkins GN. (1978). The Physiology and Biochemistry of the Mouth. 4th Edition. Oxford, Blackwell Scientific Publications.
13. Antonio Nanci, A. (2018) Ten Cate's Oral Histology: Development, Structure and Function, 9th Edition. Elsevier. (ISBN13: 9780323485241)

DIA 1002 – ANATOMY

List of books that must be included in the course pro-forma:

1. Richard S Snell “Clinical Anatomy for by Regions”. Latest edition, Lippincott, William & Wilkins.

Anne M R Agur, “Grant’s Atlas of Anatomy”, Latest edition, Lippincott, William & Wilkins OR P H Abrahams, R T Hutchings, S C Marks Jr, “McMinn’s Color Atlas of Human Anatomy”, Latest edition, Mosby. OR

Frank K H. Netter, “Atlas of Human Anatomy”, Latest edition, Mosby / Elsevier.

2. Leslie P Gartner and James L Hiatt, “Colour Textbook of Histology,” Latest edition, WB Saunders Co.
3. Victor P Eroschenko, “diFiore’s Atlas of Histology with Functional Correlations”, Latest edition, Lippincott, William & Wilkins.
4. T W Sadler, “Langman’s Medical Embryology”, Latest edition, Lippincott, William & Wilkins.

List of reference books:-

1. Keith L Moore, “*Clinically Oriented Anatomy*”, 5th Edition: 2006, Lippincott, William & Wilkins.
2. Barbara Young and John W Heath, “*Wheater’s Functional Histology – A Text and Color Atlas*”, 5th Edition: 2006, Churchill Livingstone.
3. Richard L. Drake, Wayne Vogl and Adam W.M. Mitchell, “*Gray’s Anatomy for Students*”, 1st Edition: 2005, Elsevier, Churchill Livingstone

DIA 1003 – BIOCHEMISTRY

List of books that must be included in the course pro-forma:

1. Berg, J.M.J.L. Tymoczko and L. Stryer (2011). Biochemistry, 7th Ed., W.H. Freeman and Co., N.Y.
2. Champe, P.C., R.A. Harvey and D.R. Ferrier (2011). Biochemistry, 5th International Ed., Lippincott Williams & Wilkins, USA
3. Murray, R. K., D.K. Granner, and V.W. Rodwell (2012). Harper's Illustrated Biochemistry, 29th Edition, International Edition, McGraw-Hill Companies, Inc. Singapore.
4. Devlin, T.M. [Ed.] (2010), Textbook of Biochemistry With Clinical Correlations, 7th Ed., Wiley-Liss, Inc, N.Y.

List of reference books:-

1. Nelson, D.L and Cox, M.M. "Lehninger Principles of Biochemistry", Fourth Edition:2005, W.H Freeman & Co., N.Y.
2. Voet, D. and Voet, J.G. "Biochemistry. Third Edition:2004, Wiley International Ed., John Wiley & Sons, Inc., USA

DIA 1004 – PHYSIOLOGY

List of books that must be included in the course pro-forma:

1. Dee Unglaub Silverthorn. Human Physiology An Integrated Approach. 5th Edition 2010. Pearson Benjamin Cummings.
2. Sherwood Lauralee. Human Physiology. 6th Edition 2007. Thomson Brooks/Cole.
3. Widmaier, E P., Vander's Human Physiology. 10th Edition 2006. McGraw-Hill.
4. Ganong, William F. Review of Medical Physiology. 22nd Edition 2005. McGraw-Hill.
5. Rhoades R and Pflanzer R. Human Physiology. 4th Edition 2003. Thomson Books.
6. Linda S Costanzo. Physiology. 2nd Edition 2002. Saunders.
7. Raman A, Ruby Husain & Mohd Afandi Muhamad. Fisiologi Manusia. Edisi Kedua: 1995. Fajar Bakti.

List of reference books:-

1. Gardner D G and Shoback D. Greenspan's Basic and Clinical Endocrinology. 8th Edition 2007. McGraw-Hill.
2. Douglas C E and Pooler J P. Vander's Renal Physiology. 6th Edition 2005. McGraw-Hill
3. Koeppen Bruce M, Stanton Bruce A. Renal Physiology. 4th Edition 2007. Mosby.
4. Johnson Leonard R. Gastrointestinal Physiology. 7th Edition 2007. Mosby.
5. Levitzky Michael G. Pulmonary Physiology. 7th Edition 2007. McGraw-Hill.
6. Cloutier Michelle M. Respiratory Physiology. 2007. Mosby.

YEAR II

DIA 2001 - COMMUNITY DENTISTRY I

List of books that must be included in the course pro-forma:

1. Daly B, Bathelor P, Treasure ET, Watt RG. (2013). Essential Dental Public Health. 2nd ed. Oxford University Press.
2. Pine C. Harris R, (ed.). (2007). Community Oral Health. 2nd ed. Quintessence Pub.Co.Ltd.
3. Locker D. (1989). An Introduction to Behavioural Science and Dentistry. Tavistock/ Routledge.

List of reference books:-

1. Gerry Humpris & Margaret S. Ling. (2000).“ Behavioral Sciences for Dentistry ”. London: Harcourt Publishers Ltd.
2. Jacob M.C., Plamping D. (1989). The Practice of Primary Dental Care. Wright.
3. Davis P. (1987). Introduction to the Sociology of Dentistry; a Comparative Perspective. Dunedin: University Otago Press.
4. Armstrong D. (1994). An Outline of Sociology as Applied to Medicine. Butterworth: Hainemann Ltd.
5. Ingersoll B.D (1982). Behavioural Aspects in Dentistry. New York: Appleton - Century - Crofts.
6. Kent G.G, Blinkhorn A.S (1993) The Psychology of Dental Care. 2nd edition. London: Wright Publication.
7. Ewles, L., Simnett I. (2005) Promoting Health : A Practical Guide. 5th Edition. New York: Bailliere TIndall.
8. Hashim. Awang, AR. (1990). Pengantar Antropologi Perubatan. Kuala Lumpur: Dewan Bahasa & Pustaka.
9. Heggenhougen HK (1980). Bomohs, Doctors and Sinsehs – Medical Pluralism in Malaysia. Social Science & Medicine 1980;14B:235-244
10. Henderson G & Primeux M (1981). Transcultural Health Care . California:Addison-Wesley
11. Kay L,Tinsley S. (1996). Communication for the Dental Team. United Kingdom:Partners in Practice Limited
12. Stoner J, Freeman R. (1989). Management.4th ed. New Jersey:Prentice Hall
13. McLachlan G (Ed) (1972). Problems & Progress in Medical Care. Oxford:oxford University Press
14. Cooper MH (1979). The Demand and Need for Dental Care, Social Policy andAdministration,13:91-104

DIA 2002 – ORAL & MAXILLOFACIAL IMAGING I

List of books that must be included in the course pro-forma:

1. Whaites E (2013). Essentials of Dental Radiography and Radiology. 5th ed. Churchill Livingstone.
2. White SC & Pharoah MJ (2014). Oral Radiology – Principles and Interpretation. 7th Mosby Inc.
3. Langland OE & Langlais RP, Preeze JW (2002). Principles of Dental Imaging. 2nd. Williams & Wilkins.

DIA 2003 - DENTAL MATERIALS & DENTAL TECHNOLOGY

List of books that must be included in the course pro-forma:

1. Summit JB, Robbins JW, Hilton TJ, Schwartz RS (2006). Fundamental of Operative Dentistry. A Contemporary Approach. 3rd edition, Quintessence Publishing Co. Ltd., Illinois.
2. McCabe JF, Walls Angus WG, 9th Edition. Applied Dental materials. Blackwell MUNKSGOARD, 2008.
3. Hargreaves KM. **Pathways of the pulp, 9th Edition Mosby Year Book 2006.
4. Kenenth J, Anusavice, Chiayi Shen & H. Ralph Rawls, Phillips' Science of Dental Materials. 12th Edition. 2013.

List of reference books:-

1. McCabe JF & Walls AWG (2008) Applied Dental Materials, 9th edition, Blackwell Science, London.
2. K.J Anusavice (2003) Phillips' Science of Dental Materials, 11th Edition, Saunders
3. W.J O'Brien (2008) Dental Materials and Their Selection, 4rd Edition, Quintessence Publishing Co Ltd
4. R Craig, J.M Powers & J.C Wataha (2008) Dental Materials: Properties and Manipulation, 9th Edition, Mosby
5. Graham J Mount & WR Hume (2005). Preservation and Restoration of Tooth Structure. 2nd Edition, Knowledge Books and Software
6. Ole Fejerskov, Edwina Kidd. (2003). Dental Caries: The Disease and Its Clinical Management. Blackwell Munksgaard
7. Edwina AM Kidd. Essentials of Dental Caries. 3rd Edition. Oxford.
8. Carmen Scheller. (2006) Basic Guide to Dental Instruments. Blackwell Munksgaard.
9. Summit, James B. and Robbins, J. William and Schwartz, Richard S. (2006). Fundamentals of Operative Dentistry - A Contemporary Approach. 3rd Edition, Quintessence Publishing Co. Inc.
10. Kidd EAM, Smith BGN & Pickard HM. (2003) Pickard's Manual Operative Dentistry. 8th Edition, Oxford University Press.
11. Roberson TM, Heymann HO and Swift Jr EJ (2006). Sturdevant's Art & Science of Operative Dentistry. 5th Edition, St. Louis, Mosby.
12. Rosenstiel SF, Land MF, Fujimoto J. (2006) Contemporary Fixed Prosthodontics. 4th Edition, Mosby
13. Roberson TM, Heymann HO, Swift EJ (2006). Sturdevant's Art and Science of Operative Dentistry. 5th Edition, Mosby
14. Walton RE and Torabinejad M (2008). Principles and Practice of Endodontics. 4th Edition, Saunders, Philadelphia.
15. Cohen S, Hargreaves Kenneth. (2002).Pathways of the Pulp. 9th Edition, Mosby, Inc. USA.

16. Shillingburg HT, Hobo S, Whitsett LD, Jacobi R & Brackett S. Fundamentals of Fixed Prosthodontics, 3rd Edition 1997. Quintessence Books
17. Bhat VS & Nandish BT. Science of Dental Materials - Clinical Applications, 2006, CBS Publishers & Distributors
18. Pitt Ford TR. (1997). Harty's Endodontics in Clinical Practice. 4th Edition, Wright, Oxford.
19. Robbins JW (2000). Porcelain Veneers in Fundamentals of Operative Dentistry - A Contemporary Approach. Ed: Schwartz RS, Summit JB & Robbins JW, Second Edi. Quintessence Publishing Co. Inc. Chicago
20. R. Van Noort (2007) Introduction to Dental Materials, 3rd Edition. Mosby
21. J. L Ferracane (2001) Materials in Dentistry - Principles and Applications, Lippincott Williams & Wilkins
22. J.M Powers & R.L Sakaguchi (2006) Craig's Restorative Dental Materials, 12th Edition, Mosby
23. M Gladwin (2004) Clinical Aspects of Dental Materials, 2nd Edition, Lippincott Williams and Wilkins
24. E. D Vanable & L.R LoPresti (2003) Using Dental Materials, Appleton and Lange.
25. Graham J Mount (2002) An Atlas of Glass-ionomer Cements: A Clinician's Guide. 3rd Edition. Martin Dunitz.
26. George Eliades, Theodore Eliades, William A Brantley, David C Watts. (2003) Dental Materials in Vivo: Aging and Related Phenomena. Quintessence Books.
27. Damien Walmsley, Trevor F Walsh, Phillip J Lumley, FJ Trevor Burke, Adrian C Shortall, Richard Hayes-Hall, Iain A Pretty.(2007) Restorative Dentistry. 2nd Edition. Churchill Livingstone Elsevier.
28. Combe E.C, Burke F.J.T, Douglas W.H (1999) Dental Biomaterials, Kluwer Academic Publishers
29. Iven Klineberg, Rob Jagger. (2004) Occlusion and Clinical Practice: An Evidence-based approach. 1st Edition. Wright, Elsevier Limited.
30. SJ Davies, RJM Gray (2002) A clinical guide to occlusion. BDJ Books.
31. Smith B.G.N, Wright P.S, Brown D (1995) The Clinical Handling of Dental Materials, 2nd Edition Butterworth-Heinemann Ltd
32. Combe E.C (1992) Notes on Dental Materials, 6th Edition, Churchill Livingstone Inc
33. Marzouk M.A., Simonton A.L., Gross R.D. (1997). Operative Dentistry, Modern Theory and Practice. Ishiyaku EuroAmerica, Inc USA.
34. Christopher J.B. (1992). Heinemann Dental Handbook. Butterworth-Heinemann Ltd, Oxford. The Benjamin/Cummings Publishing Co. Inc, USA.
35. H.J Wilson, M.A Mansfield, J.R Health DISpense. **Dental Technology and Materials for Students. Blackwell Scientific Publications. 8th Edition 1987.
36. Osborne, J. & Lammie, G.A. Partial Dentures. 5th Edition. Blackwell Scientific Publications, 1986. [WU515 osb 1986]

37. Anderson, J.N & Storer, R. Immediate and Replacement Dentures. 3rd Ed. Blackwell Scientific Publications, 1981. [WU530 And 1981]
38. Stananough, A. Laboratory Procedures for Full and Partial Dentures. 2nd Edition. Blackwell,1984.
39. Torabinejad M & Walton RE. Endodontics: Principles and Practice. 4th Edition (2009). Saunders.

DIA 2004 - PATHOLOGY

List of books that must be included in the course pro-forma:

1. Principles of Pathology for Dental Students. JB Walter, MC Grundy (editors). 5th edition, 2000. Churchill Livingstone
2. General and Systemic Pathology. JCE Underwood (editor). 4th edition, 2004. Churchill Livingstone
3. Robbins and Cotran Pathologic Basis of Disease. V Kumar, AK Abbas, N Fausto (editors), 8th edition, 2009. Elsevier Saunders.
4. Histology: A Text and Atlas. MH Ross, W Pawlina (editors). 6th edition, 2012. Lippincott William & Wilkin

DIA 2005 - MEDICAL MICROBIOLOGY

List of books that must be included in the course pro-forma:

1. Essential Microbiology for Dentistry, Lakshman Samaranayake (2011, Churchill Livingstone)
2. Mim's Medical Microbiology, Updated Edition: with Student Consult Online 5th Edition by Richard Goering, Hazel Dockrell, Mark Zukerman, Ivan Roitt, Peter L.Chiodini (Saunders; 5th Edition 2012)
3. Jawetz, Melnick and Adelberg's Medical Microbiology 26th Edition by Geo F.Brooks, Karen C. Carroll, Janet S. Butel, Stephen A. Morse, Timothy A. Mietzner. (McGraw-Hill Education/Medical; 27th Edition 2015)
4. Review of Medical Microbiology and Immunology 12th Edition by Warren Levinson (McGraw-Hill Education/Medical; 14th Edition 2016)
5. Essential of Microbiology for Dental Students, by Jeremy Bagg, T.Wallace MacFarlane, Ian R. Poxton, Adrew J. Smith (Oxford University Press, 2nd Edition, 2006)

DIA 2006 – PHARMACOLOGY

List of books that must be included in the course pro-forma:

1. Rang H P, Dale M M, Ritter J.M. & Flower R J “Pharmacology”, 7th Edition, Churchill Livingstone, 2012
2. Katzung B G “Basic and Clinical Pharmacology”, 12th Edition, McGraw-Hill, 2012
3. Harvey R A (Series Editors) Lippincott’s Illustrated Reviews: PHARMACOLOGY, 5th edition, Lippincott Williams & Wilkins, 2012

List of reference books:-

1. Yagiela, Dowd & Neiddle, EA.: “Pharmacology & Therapeutics for Dentistry.”, 5th Edition.
2. Brunton L L, Lazo J S, Parker K L P “Good & Gilman’s The Pharmacological Basis of Therapeutics” 11th edition, McGraw-Hill, 2006.

YEAR III

DIA 3001 – COMMUNITY DENTISTRY II

List of books that must be included in the course pro-forma:

1. Daly B. et. al. (2013). Essential Dental Public Health, Oxford: Oxford University Press
2. Pine C. Harris R, (ed.). (2007). Community Oral Health. Quintessence Pub.Co.Ltd.
3. Ewles and Simnett (2003). Promoting Health: A Practical Guide, 5th ed. Edinburgh:Balliere Tindall.
4. Naidoo and Wills (2009). Foundations for Health Promotion, 3rd ed. Edinburgh:Balliere Tindall.

DIA 3002 – ORAL & MAXILLOFACIAL IMAGING II

List of books that must be included in the course pro-forma:

1. Whaites E (2007). Essentials of Dental Radiography and Radiology. 5th Edition, Churchill Livingstone.
2. White SC & Pharoah MJ (2004). Oral Radiology – Principles and Interpretation. 5th Edition Mosby Inc.
3. Langlais RP, Langland OE & Nortje CJ (1995). Diagnostic Imaging of the jaws. 1st Edition Williams and Wilkins.
4. Langland OE & Langlais RP (1997). Principles of Dental Imaging. 1st Edition, Williams & Wilkins.

DIA 3003 - OPERATIVE & ENDODONTICS I

List of books that must be included in the course pro-forma:

1. James B. Summit, J William Robbins, Thomas J. Hilton, Richard S. Schwartz, 3rd Edition. ** Fundamentals of Operative Dentistry: A Contemporary Approach, 3rd Edition 2006
2. Edwina A.M Kidd, **Essentials of Dental Caries: The Disease and its Management, 3rd Edition, 2005
3. Cohen S & Hargreaves KM. (2011). Pathways of the Pulp, 10th Edition, Mosby, St. Louis.
4. Torabinejad, M., Walton, RE., Fouad, AF, Endodontics: Principles and Practice. 5th Edition, Saunders, 2014

DIA 3004 - ORAL PATHOLOGY & ORAL MEDICINE I

List of books that must be included in the course pro-forma:

1. Soames, J. V, Southam, J. C., (2005). Oral Pathology. 4th Edition. Oxford University Press.
2. Regezi, J. A., Sciubba, J. J., & Jordan, R. C. (2012). Oral pathology: clinical pathologic correlations. 6th Edition. Elsevier Health Sciences.
3. Cawson, R. A., & Odell, E. W. (2008). Cawson's essentials of oral pathology and oral medicine. 8th Edition. Elsevier Health Sciences.
4. Warnakulasuriya, S., & Tilakaratna, W. M. (2013). Oral medicine and pathology: a guide to diagnosis and management. 1st Edition. JP Medical Ltd.
5. Woo, S. B. (2012). Oral Pathology: A Comprehensive Atlas and Text. Elsevier Health Sciences.

DIA 3005 - PERIODONTOLOGY I

List of books that must be included in the course pro-forma:

1. Clinical Periodontology 12th Edition. Newman, Takei, Klokke Old, Carranza, (2014). Published by WB Saunders
2. Periodontology Guide Book, Prof. Dr. Tara Taiyeb Ali, Prof. G. Conrad Hornbuckle, Dr. Nor Adinar Baharuddin & Dr. Rathna Devi Vaithilingam. Jabatan Patologi Mulut, Perubatan Mulut & Periodontologi.
3. Outline of Periodontics. Barry M. Eley, J.D Manson. Wright (5th Ed.) 2004.

DIA 3006 - PEDIATRIC DENTISTRY I

List of books that must be included in the course pro-forma:

1. Koch G, Poulsen S. Pediatric Dentistry: A Clinical Approach. 2nd edition: John Wiley & Sons; 2009
2. Millett D, Welbury R. Clinical Problem Solving in Orthodontics and Paediatric Dentistry. 2nd edition: Elsevier Health Sciences UK; 2010
3. Welbury R, Duggal MS, Hosey MT. *Paediatric Dentistry*. 4th edition: Oxford University Press Oxford; 2012
4. Dean JA, Avery DR, McDonald RE. McDonald and Avery Dentistry for the Child and Adolescent 9th edition: Elsevier Health Sciences; 2010.
5. Casamassimo PS, Fields HW, McTigue DJ, Nowak A. Pediatric Dentistry: Infancy through Adolescence. 5th edition: Elsevier Health Sciences; 2013

DIA 3007 – ORTHODONTICS I

List of books that must be included in the course pro-forma:

1. Mitchell L. An Introduction to Orthodontics. Fourth Edition. Oxford University Press. 2013.
2. Cobourne M.T. & DiBiase A.T. Handbook of Orthodontics. Mosby, 2010
3. Houston W.J.B., Stephens C.D. & Tulley W.J. A Textbook of Orthodontics. 2nd Edition. Wright. 1992.

DIA 3008 – PROSTHODONTICS I

List of books that must be included in the course pro-forma:

1. Zarb GA, Bolender CL, Carlsson GE, 10th Edition. Boucher's Prosthodontic Treatment for Edentulous Patient. The C.V Mosby Company. 1997.
2. Watt Dm, MacGregor Ar, 2nd Edition. Designing Complete Dentures. Wolfe Medical Publications, 1985.
3. Hobkirk JA, 1st Edition. A Colour Atlas of Complete Dentures. Wolfe Medical Publications, 1985
4. Eckert S, Jacob RF, Fenton AH, Meriske-Stern R. Zarb-Bolender Prosthetic treatment for edentulous patients-Complete dentures and implant-supported prosthesis. 12th Edition., Mosby St Louis, 2004.
5. Basker, R. M., Davenport, J. C. (John Chester), Thomason, J. M. Prosthetic treatment of the edentulous patient Chichester, West Sussex, UK : Wiley-Blackwell, 2011. 5th ed.

DIA 3009 – ORAL & MAXILLOFACIAL SURGERY I

List of books that must be included in the course pro-forma:

1. Howe G.L. "The Extration of Teeth ". 2nd & 3rd revision edition. Oxford:Wright, 1994.
2. Cawson, R.A. Essentials of Dental Surgery and Pathology. 5th ed. Churchill Livingstone, 1991. [WU600 Caw 1991].
3. Howe G.L, & Whitehead FIH. Local Anaesthesia in Dentistry. 4th Edition. Wright 1998.
4. Scully, C & Cawson, R.A. Medical Problems in Dentistry. 4th ed. Wright, 1998. [WB100 Scu. 1998].

DIA 3010 – GENERAL DENTAL PRACTICE I

List of books that must be included in the course pro-forma:

1. Birnbaum, Warren & Dunne, Stephen M. (2000). Oral Diagnosis: The Clinician's Guide. Wright.
2. Robert B, Morris. (1999). Strategies in Dental Diagnosis and Treatment Planning. Martin Dunitz Lth.
3. Betty L Finkbeiner and JC Pratt (1991): Practice management for dental. Mosby.
4. Larry R Domer, Thomas L Synder, David W Heid (1980): Dental Practice Management-Concept and application. Mosby.

DIA 3011 – HUMAN DISEASE (GENERAL SURGERY)

List of books that must be included in the course pro-forma:

- 1 Howe G.L. "The Extraction of Teeth ". 2nd & 3rd revision edition. Oxford:Wright, 1994.
- 2 Cawson, R.A. Essentials of Dental Surgery and Pathology. 5th ed. Churchill Livingstone, 1991. [WU600 Caw 1991].
- 3 Howe G.L, & Whitehead FIH. Local Anaesthesia in Dentistry. 4th Edition. Wright 1998.
- 4 Scully, C & Cawson, R.A. Medical Problems in Dentistry. 4th ed. Wright, 1998. [WB100 Scu. 1998].

DIA 3012 – HUMAN DISEASES (GENERAL MEDICINE)

List of books that must be included in the course pro-forma:

1. Murray Longmore, Ian Wilkinson, Estee Torok. "Oxford Handbook of Clinical Medicine". 5th Edition, Oxford Publisher.
2. Crispian Scully, Roderick A. Cawson. "Medical Problems in Dentistry". 4th Edition, Wright Publisher.
3. A.C Kennedy, L.H Blumgart, GDO Lowe J R Anderson. "Essentials of Medicine and Surgery for Dental Student ". Churchill Livingstone Publication.
4. Norman L Browse Elbs. An Introduction to the Symptoms and Signs of Surgical Disease.

YEAR IV

DIA 4001 - COMMUNITY DENTISTRY III

List of books that must be included in the course pro-forma:

1. Daly B. et. al. (2013). Essential Dental Public Health, Oxford: Oxford University Press
2. Pine C. Harris R, (ed.). (2007). Community Oral Health. Quintessence Pub.Co.Ltd.
3. Naidoo J and Wills J. Health Promotion (2000). Foundations for Practice (2nd edn). London: Bailliere Tindall.
4. Ewles L and Simnett I (2005). Promoting Health – A Practical Guide. London: Bailliere Tindall.
5. Locker D. (1989). An Introduction to Behavioral Science and Dentistry. Tavistock/Routledge.
6. Harris, N.O. (2004). Primary Preventive Dentistry. 6th ed. Upper Saddle Rivver N.J: Perason Education. [WU113 Har 2004].

List of reference books:-

1. Harris, N.O. (2004). Primary Preventive Dentistry. 6th ed. Upper Saddle Rivver N.J: Perason Education. [WU113 Har 2004].
2. Sears, J, Walters L. (1991). Law and Ethics in Dentistry 3rd edition. London: Wright.
3. Tuominen R. (1994). Health, Economics in Dentistry. California: med Ed. Ins
4. Dental Act 1971 (Act51) & Regulations, International Law boon Services 2003
5. World Health Organization (2001). Basic Methods of Oral Health Survey. Geneva: World Health Organization
6. Beaglehole R, Bonita R, Kjellstrom T (1993). Basic Epidemiology. Geneva: World Health Organization.
7. Murray JJ. (2003). The Prevention of Oral Disease. 4th Ed. Oxford: Oxford University Press.
8. Clark DH (1992). Practical Forensic Odontology 1st ed. Butterworth Heinemann Ltd.
9. Coltone JA, Standish SM (1982). Outline of Forensic Odontology. 1st ed. Year Book Medical Publisher Inc.
10. Bomers CM (1995). Manual of Forensic Odontology 2nd ed. American Academy of Forensic Science
11. Stimson PG, Mertz CA (1997). Forensic Dentistry CRC Press LCD
12. Ewles L & Simnett I (2005). Promoting Health: A Practical Guilde. 5th ed. New York: Bailliere Tindall
13. Jacob M & Plamping D (1989). The Practice of Primary Dental Care. Landon: Wright
14. Schou L & Blinkhorn A (1993).ed. Oral Health Promotion Oxford: Oxford University Press
15. Helman C. 2001 Culture, health and illness. 4th ed. Butterwort Heinemann

DIA 4002 – ORAL & MAXILLOFACIAL IMAGERY III

List of books that must be included in the course pro-forma:

1. Whaites E (2007). Essentials of Dental Radiography and Radiology. 4th Edition, Churchill Livingstone.
2. White SC & Pharoah MJ (2004). Oral Radiology – Principles and Interpretation. 5th Edition Mosby Inc.
3. Langlais RP, Langland OE & Nortje CJ (1995). Diagnostic Imaging of the jaws. 1st Edition Williams and Wilkins.
4. Langland OE & Langlais RP (1997). Principles of Dental Imaging. 1st Edition, Williams & Wilkins.

DIA 4003 - OPERATIVE & ENDODONTICS II

List of books that must be included in the course pro-forma:

1. Hargreaves KM and Cohen S. (2011). Cohen's Pathways of the Pulp. 10th Edition, Mosby, St. Louis.
2. Torabinejad M & Walton RE (2009). Endodontics: Principles and Practice. 4th Edition, Saunders
3. Problem Solving in Endodontics. 5th Edition, Mosby, 2011

DIA 4004 – ORAL PATHOLOGY & ORAL MEDICINE II

List of books that must be included in the course pro-forma:

1. Scully, C. (2012). Oral and maxillofacial medicine: the basis of diagnosis and treatment. 3rd Edition. Elsevier Health Sciences.
2. Field, E. A., & Longman, L. (2003). Tyldesley's oral medicine. 5th Edition. Oxford university press.
3. Lewis, M., & Jordan, R (2012). A Colour Handbook of Oral Medicine. 2nd Edition. CRC press Cawson, R. A., & Odell, E. W. (2008). Cawson's essentials of oral pathology and oral medicine. 8th Edition. Elsevier Health Sciences.
4. Warnakulasuriya, S., & Tilakaratna, W. M. (2013). Oral medicine and pathology: a guide to diagnosis and management. 1st Edition. JP Medical Ltd.

DIA 4005 – PERIODONTOLOGY II

List of books that must be included in the course pro-forma:

1. Clinical Periodontology 12th Edition. Newman, Takei, Klokkevold, Carranza, (2014). Published by WB Saunders
2. Periodontology Guide Book, Prof. Dr. Tara Taiyeb Ali, Prof. G. Conrad Hornbuckle, Dr. Nor Adinar Baharuddin & Dr. Rathna Devi Vaithilingam. Department of Oral Pathology, Oral Medicine & Periodontology.
3. Barry M. Eley, J.D Manson. (2004) Outline of Periodontics (5th Ed.) Wright

DIA 4006 – PEDIATRIC DENTISTRY II

List of books that must be included in the course pro-forma:

1. Andreasen JO, Andreasen FM, Andersson L. Textbook and Color Atlas of Traumatic Injuries to the Teeth. 4th edition: Wiley; 2013
2. Welbury R, Duggal MS, Hosey MT. Paediatric Dentistry. 4th edition: Oxford University Press Oxford; 2012
3. Berg JH, Slayton RL. Early Childhood Oral Health: Wiley; 2009
4. Dean JA, Avery DR, McDonald RE. McDonald and Avery Dentistry for the Child and Adolescent. 9th edition: Elsevier Health Sciences; 2010.
5. Casamassimo PS, Fields HW, McTigue DJ, Nowak A. Pediatric Dentistry: Infancy through Adolescence. 5th edition: Elsevier Health Sciences; 2013.

DIA 4007– ORTHODONTICS II

List of books that must be included in the course pro-forma:

1. Mitchell L. An Introduction to Orthodontics. 4th Edition. Oxford University Press. 2013.
2. Cobourne M.T. & DiBiase A.T. Handbook of Orthodontics. Mosby, 2010
3. Houston W.J.B., Stephens C.D. & Tulley W.J. A Textbook of Orthodontics. 2nd. Wright. 1992.

DIA 4008 – PROSTHODONTICS II

List of books that must be included in the course pro-forma:

1. Zarb GA, Bolender CL, Carlsson GE, 10th Edition. Boucher's Prosthodontic Treatment for Edentulous Patient. The C.V Mosby Company. 1997.
2. Watt Dm, MacGregor Ar, 2nd Edition. Designing Complete Dentures. Wolfe Medical Publications, 1985.
3. Hobkirk JA, 1st Edition . A Colour Atlas of Complete Dentures. Wolfe Medical Publications, 1985.
4. Mosby Year Book medical Publications, 2000.

DIA 4009 – ORAL & MAXILLOFACIAL SURGERY II

List of books that must be included in the course pro-forma:

1. White SC & Pharoah MJ (2000). Oral Radiology – Principles and Interpretation. 4th Edition. Mosby Inc.
2. Farman AG, Nortje CJ & Wood RE (1993). Oral and Maxillofacial Diagnostic Imaging. 1st ed. Mosby – Year Book Inc.
3. Whaites E (1996). Essentials of Dental Radiography and Radiology. 2nd edition Livingstone.
4. John Pedlar, John W Frame (2007). Oral & Maxillofacial Surgery - An Objective - based textbook. 2nd Edition. Churchill Livingstone.

DIA 4010 – GENERAL DENTAL PRACTICE II

List of books that must be included in the course pro-forma:

1. Birnbaum, Warren & Dunne, Stephen M. (2000). Oral Diagnosis: The Clinician's Guide. Wright.
2. Robert B, Morris. (1999). Strategies in Dental Diagnosis and Treatment Planning. Martin Dunitz Lth.
3. Betty L Finkbeiner and JC Pratt (1991): Practice management for dental. Mosby.
4. Larry R Domer, Thomas L Synder, David W Heid (1980): Dental Practice Management-Concept and application. Mosby

YEAR V

DIA 5001 - COMMUNITY DENTISTRY IV

List of books that must be included in the course pro-forma:

1. Annual Report 2010, Oral Health Division, Ministry of Health Malaysia
2. National Oral Health Plan For Malaysia 2011 – 2020, Oral Health Division, Ministry of Health Malaysia (2011)
3. Oral Health Care in Malaysia, Oral Health the Division, Ministry of Health Malaysia (2008).
4. J. Trevor Burke, Ruth Freeman. (2004). Preparing for Dental Practice

DIA 5002 – OPERATIVE & ENDODONTICS III

List of books that must be included in the course pro-forma:

1. B. Summit, J William Robbins, Thomas J. Hilton, Richard S. Schwartz, 3rd Edition. Fundamentals of Operative Dentistry: A Contemporary Approach, 3rd Edition 2006.
2. A.M Kidd, Essentials of Dental Caries: The Disease and its Management, 3rd Edition, 2005
3. Hargreaves KM and Cohen S. (2011). Cohen's Pathways of the Pulp. 10th Edition, Mosby, St. Louis.
4. Torabinejad M & Walton RE. Endodontics: Principles and Practice. 4th Edition, Saunders, 2009
5. Problem Solving in Endodontics. 5th Edition, Mosby, 2011

DIA 5003 – PEDIATRIC DENTISTRY III

List of books that must be included in the course pro-forma:

1. Koch G, Poulsen S. Pediatric Dentistry: A Clinical Approach. 2nd edition: John Wiley & Sons; 2009
2. Millett D, Welbury R. Clinical Problem Solving in Orthodontics and Paediatric Dentistry. 2nd edition: Elsevier Health Sciences UK; 2010
3. Welbury R, Duggal MS, Hosey MT. Paediatric Dentistry. 4th edition: Oxford University Press Oxford; 2012
4. Dean JA, Avery DR, McDonald RE. McDonald and Avery Dentistry for the Child and Adolescent. 9th edition: Elsevier Health Sciences; 2010.
5. Casamassimo PS, Fields HW, McTigue DJ, Nowak A. Pediatric Dentistry: Infancy through Adolescence. 5th edition: Elsevier Health Sciences; 2013

DIA 5004 – ORTHODONTICS III

List of books that must be included in the course pro-forma:

1. Mitchell L. An Introduction to Orthodontics. 4th Edition. Oxford University Press. 2013.
2. Cobourne M.T. & DiBiase A.T. Handbook of Orthodontics. Mosby, 2010
3. Houston W.J.B., Stephens C.D. & Tulley W.J. A Textbook of Orthodontics. 2nd Edition. Wright. 1992.

DIA 5005 – PROSTHODONTICS III

List of books that must be included in the course pro-forma:

1. Zarb GA, Bolender CL, Carlsson GE, 10th Edition. Boucher's Prosthodontic Treatment for Edentulous Patient. The C.V Mosby Company. 1997.
2. Watt Dm, MacGregor Ar, 2nd Edition. Designing Complete Dentures. Wolfe Medical Publications, 1985.
3. Hobkirk JA, 1st Edition . A Colour Atlas of Complete Dentures. Wolfe Medical Publications, 1985.
4. Givney GP, Carr AB, McCracken WL, 10th Edition. McCracken Removable Partial Prosthodontics. Mosby Year Book medical Publications, 2000.
5. Shillingburg HT, Hobo SA & Whitsett LD (1997) Fundamentals of Fixed Prosthodontics, 3rd Edition, Quintessence Publishing Co. Inc. Chicago.

DIA 5006 – ORAL & MAXILLOFACIAL SURGERY III

List of books that must be included in the course pro-forma:

1. Oral Pathology: Clinical Pathologic Correlations, 5th Edition, Joseph A. Regezi, James J. Sciubba, and Richard C. K. Jordan, WB Saunders, Philadelphia, 2008.
2. Essentials of Oral Pathology and Medicine, 8th Edition, R A Cawson and E W Odell, Churchill Livingstone, 2008.
3. Tyldesley's Oral Medicine, 5th Edition, Anne Field and Lesley Longman. Oxford University Press, 2003
4. Oral Pathology, 4th Edition, JV Soames and JC Southam, Oxford University Press

DIA 5007 - GENERAL DENTAL PRACTICE III

List of books that must be included in the course pro-forma:

1. Birnbaum, Warren & Dunne, Stephen M. (2000). Oral Diagnosis: The Clinician's Guide. Wright.
2. Robert B, Morris. (1999). Strategies in Dental Diagnosis and Treatment Planning. Martin Dunitz Lth.
3. Betty L Finkbeiner and JC Pratt (1991): Practice management for dental. Mosby.
4. Larry R Domer, Thomas L Synder, David W Heid (1980): Dental Practice Management-Concept and application. Mosby.