

Required major course
and Maxillofacial Surgery II
Walailak University 2019

DST61-634 Seminar in Oral
Course Syllabus



Course Syllabus

Name of Institution Walailak University
School/Institute/college International College of Dentistry,
 Walailak University
 Master of Science in Dentistry (International
 Program)
 Major in Oral and Maxillofacial Surgery

General Information

1. Course Code and Course Title

DST61-634 Seminar in Oral and Maxillofacial Surgery
 II

2. Number of Credits

2(2-0-4)

3. Curriculum and Type of Subjects

This is the required major courses of Master of Science in
 Dentistry (International Program) , Major in Oral and
 Maxillofacial Surgery.

4. Course Coordinators and Lecturers

Course Coordinators: Dr. Bishwa Prakash Bhattarai

Dr. Panomwat Amornphimoltham

Lecturer: Prof. Natthamet Wongsirichat

5. Trimester / Year of Study

2st Trimester / 1st year of study

6. Pre-requisites (if any)

none

7. Co-requisites (if any)

none

8. Venue of Study

Seminar : Wednesday 9.00-12.00 am Room: 2

9. Date of the Latest Revision

...11/01/2019.....

Design and plan learning activities and/or programs of study (A1, UKPSF)

Design and plan learning activities learning activities and/or programs of study. (TQF 3, teaching and learning process and activities, etc.)

1. Philosophy, Vision, and Mission of Walailak University**Vision**

To be an institution of good governance, a source of knowledge for critical problems facing the nation, to unflinchingly address community needs, and to strive for international recognition for excellence.

The university has 4 major commitments as follows:

1. To provide high level training for students, based on world standards, consistent with socio- economic development of the South of Thailand and Thailand as a whole;
2. To conduct research in order to develop new knowledge that can be of benefit to national progress, and help enhance international competitiveness of Thailand;
3. To provide and share expertise and technical services to organizations, both private and government sectors, including research and training and technological transfers in areas that help develop the region and country;
4. To act as a center for the conservation and restoration of art and culture.

2. Walailak University Graduate Attributes

Walailak University aims to discover, seek, maintain and disseminate knowledge and academic excellence for the progress of society. At the heart of its obligation is to develop individuals who are both professionally- competent and morally upright.

Philosophy, Vision, and Mission of the Program

Our Master of Science Program in Dentistry aims to foster students to achieve high degree of professional competence in dental specialists interfaced with research focus. Graduates are expected to be able to independently construct dental science knowledge and achieve academic research impact in the international level. We encourage students to collaborate and integrate oral health science to other disciplines while maintaining personal moral and professional ethics.

Program Graduate Attributes

1) Achieve professional excellence and apply current and emerging science and technology to construct scientific knowledge in advanced dental specialties. Graduate roles as educational and research leader in the field are recognized both national and international stages.

2) Integrate scientific research methods with the dental specialties to service and improve community dental health.

3) Develop research for academic excellence which benefit to national science and technology development. The students are encouraged to publish in the well-recognized international peer review platform and patent the discoveries.

In addition to attributes specific to program the 21st skills are also featured in the program, including skills in communication, collaboration, critical thinking and creative thinking.

3. Course Objectives (Use the Bloom' s Taxonomy as a guide to structure your course objectives)

At the end of the trimester, students should be able to

- 3.1 Understand and discuss on the seminar articles topics on oral and maxillofacial surgery.
- 3.2 Present on the contemporary issues related to the seminar maxillofacial topics with academic thinking.
- 3.3 Criticize on maxillofacial seminar articles and presentations.
- 3.4 Practice to be a leading presenter in the OMFS field.
- 3.5 Moderate and be responsible for the OMFS seminars throughout the course.

Teach and/or support learning (A2, UKPSF)
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1. Course Description

Seminar in basic sciences knowledge as applied to oral and maxillofacial surgical treatment. Special emphasis on various articles anatomical structures that applied for surgical treatment, microbial involved in oral and maxillofacial region, immunological and physiological response in various oral and maxillofacial conditions.

2. Credit Hours/Trimester or Semester

Lecture and other teaching activities (hours)			Laboratory/ Field Study/ Internship (hours)	Self- study (hours)	
Lecture (hours)	Active learning for Formative assessment				Total hours
	Small class teaching (hours)	Other teaching activities (hours)			
12 hours (50%)	12 hours (50%)	0	24 (100%)	0	No less than 48

* small class teaching or other learning activities to support learning. These activities are additional to large class lecture.

Teaching methods: You can choose more than 1 method by put ✓ in .

- | | |
|--|--|
| <input type="checkbox"/> Lecture-based | <input checked="" type="checkbox"/> Discussion-based |
| <input type="checkbox"/> Demonstration-based | <input type="checkbox"/> Project-based |
| <input type="checkbox"/> Experimental-based | <input type="checkbox"/> Laboratory |
| <input type="checkbox"/> Autonomous Learning | <input type="checkbox"/> Inquiry-based |
| <input type="checkbox"/> Field Study | |
| <input checked="" type="checkbox"/> Group Study / Research | |
| <input type="checkbox"/> Others | |

Learning Approaches: You can choose more than 1 method by put ✓ in .

- Community-based Learning
- Flipped Classroom
- Brain-based Learning
- Experiential Learning
- Problem-based Learning
- Research-based Learning
- Case-based Learning
- Others

Teaching Plan and Evaluation

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
Week #4 (3 hours) Nov 13, 2019 (9-12 am)	Journal club # 1: Odontogenic pain Student : MS#5 Diane Isabel Selvido Lecturer: Prof. Natthamet	- To understand and explain about etiology, diagnosis, and management of odontogenic pain.	1, 3, 5 ,7	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources 1. Renton T. Dental (Odontogenic) Pain. <i>Rev Pain.</i> 2011;5(1):2-7. doi:10.1177/204946371100500102 2. Delcanho R, Moncada E. Persistent pain after dental implant placement: A case of implant-related nerve injury. <i>The Journal of the American Dental Association.</i> 2014;145(12):1268-71.	- Search and review academic articles about odontogenic pain from journals and e- journals - Reading assignment. - Presentation from reading assignment	-Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score) • Daily observed assessment. - Feedback At the end of each assessment.
Week #5 (3 hours) Nov 20, 2019	Journal club # 2: Updates in the cysts and tumors of the jaw Student : MS#6 Aung Phyo Shan	To appreciate the changes made in the classification of cysts and tumors of the jaw.	1, 3, 5,7,	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources 1. Wright JM, Soluk Tekkesin M. Odontogenic tumors: where are we in 2017 ?. <i>J Istanb Univ Fac</i>	- Search and review academic articles about in the cysts and tumors of the jaw from	-Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5.

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
(9-12 am)	Lecturer: Prof. Natthamet	To understand the characteristics of "primordial odontogenic tumor"			<i>Dent.</i> 2017;51(3 Suppl 1):S10-S30. 2. Teixeira LN, Furuse C, Santos FP, et al. The Challenging Diagnosis of Primordial Odontogenic Tumor. <i>Case Rep Dent.</i> 2019;2019:6415785.	journals and e-journals - Reading assignment. - Presentation from reading assignment	- Pass examination criteria = 80% of formative assessment score) • Daily observed assessment. - Feedback At the end of each assessment.
Week #6 (3 hours) Nov 27, 2019 (9-12 am)	Journal club # 3: Third molar surgery- techniques and complications. Student : MS#7 Khin Swe Hlaing Lecturer: Prof. Natthamet	To understand and explain about new techniques of third molar surgery and rare complications associated with it.	1, 3, 5,7,	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources 1. Al-Samman AA, Al-Nuaime OS. Gustatory Changes Following Mandibular Third Molar Surgery: A Systematic Review of the Literature. <i>World J Oral Maxillofac Surg.</i> 2018;1(3): 1015	- Search and review academic articles about various aspects of third molar surgical extraction from journals and e- journals - Reading assignment.	-Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score) • Daily observed assessment.

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
					2. Hu T, Zhang J, Ma JZ, et al. A novel method in the removal of impacted mandibular third molar: buccal drainage. <i>Sci Rep.</i> 2017;7(1):12602.	- Presentation from reading assignment	- Feedback At the end of each assessment.
Week #7 (3 hours) Dec 4, 2019 (9-12 am)	Journal club # 4: Self study	Self study		Self study	Self study	Self study	No assessment
Week #8 (3 hours) Dec 11, 2019 (9-11 am)	Journal club # 5: Role of dexamethasone in lower third molar surgery Student : MS#1 Kutana Namarach Lecturer: Prof. Natthamet	To understand and explain about the roles and effective routes of dexamethasone in lower third molar surgery	1, 3, 5,7	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources 1. Syed KB, AlQahtani FH, Mohammad AH, Abdullah IM, Qahtani HS, Hameed MS. Assessment of pain, swelling and trismus following impacted third molar surgery using injection dexamethasone submucosally: A	- Search and review academic articles about the usefulness of steroids in reducing complication after third molar surgery	-Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score)

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
					<p>prospective, randomized, crossover clinical study. <i>J Int Oral Health</i> 2017;9:116-21</p> <p>2. P, Rilna & R, Sathyanarayanan & K, Raghu & J, Nithin & K, Sankar & MR, Ramesh. (2019). Assessment of Pain, Swelling, Trismus Following Impacted Lower Third Molar Surgery, With Pre-Operative Single Dose Oral Dexamethasone: A Prospective, Randomized Double Blind Controlled Clinical Trial. <i>Journal of Dental and Maxillofacial Surgery</i>. 155-163. 10.18314/jdms.v2i1.1730.</p>	<p>from journals and e- journals</p> <ul style="list-style-type: none"> - Reading assignment. - Presentation from reading assignment 	<ul style="list-style-type: none"> • Daily observed assessment. - Feedback At the end of each assessment.

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
Week #9 (3 hours) Dec 18, 2019 (9-12 am)	<p>Journal club # 6: Cannabis use for medicinal purposes</p> <p>Student : MS#2 Siriphat Chamnanvetch</p> <p>Lecturer: Prof. Natthamet</p>	To understand about the contemporary researches that were and are being conducted for the health benefits related to Cannabis.	1, 3, 5, 7	<ul style="list-style-type: none"> - Presentations. - Discussion-based - Q&A 	<p>- Materials</p> <p>- Power point presentation</p> <p>- Resources</p> <p>1. Balster, R.L., Prescott, W.R. Δ9-Tetrahydrocannabinol discrimination in rats as a model for cannabis intoxication. <i>Neuroscience and Biobehavioral Reviews</i>. 1992; 16 (1), 55-62.</p> <p>2. Lile JA, Kelly TH, Hays LR. Separate and combined effects of the GABA_A positive allosteric modulator diazepam and Δ9-THC in humans discriminating Δ9-THC. <i>Drug Alcohol</i></p>	<ul style="list-style-type: none"> - Search and review academic articles about the medicinal use and effects of cannabis extracts from journals and e-journals - Reading assignment. - Presentation from reading assignment 	<ul style="list-style-type: none"> -Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score) • Daily observed assessment. - Feedback At the end of each assessment.

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
					<i>Depend.</i> 2014;143:141-148.		
Week #10 (3 hours) Dec 25, 2019 (9-12 am)	Journal club # 7: Dental implant stability Student : MS#3 Wassaphol Wongpanuwich Lecturer: Prof. Natthamet	To understand and explain about the various techniques in contemporary practice to measure the stability of dental implants	1, 3, 5,7,	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources 1. Swami V, Vijayaraghavan V, Swami V. Current trends to measure implant stability. <i>J Indian Prosthodont Soc.</i> 2016;16(2):124-130. 2. Mistry G, Shetty O, Shetty S, Singh RD. Measuring implant stability: A review of different methods. <i>J Dent Implant</i> 2014;4:165-9	- Search and review academic articles about dental implant stability from journals and e-journals - Reading assignment. - Presentation from reading assignment	-Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score) • Daily observed assessment. - Feedback At the end of each assessment.
Week #11 (3 hours)	Journal club # 8: Exodontia, local anesthesia Student : MS#4	To understand and explain about exodontia and its complications as	1, 3, 5,7,	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources	- Search and review academic articles about exodontia, its	-Formative assessment - Criteria by using rubric

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
Jan 8, 2020 (9-12 am)	Chandra Shekhar Pandey Lecturer: Prof. Natthamet	well as the advantages of using long-acting anesthesia for third molar surgery.			1. Deliverska EG, Petkova M. Complications after extraction of impacted third molars- literature review. <i>J of IMAB</i> . 2016 Jul-Sep;22(3):1202-1211. 2. Alani AF and Al-Delayme RM. A Critically Discussion and Evaluation of the Systemic and Local Complication of Exodontia. <i>Austin J Dent</i> . 2018; 5(1): 1098. 3. Danielsson K, Evers H, Holmlund A, Kjellman O, Nordenram A, Persson NE. Long-acting local anaesthetics in oral	complications, and types of local anesthetic agents for exodontia from journals and e-journals - Reading assignment. - Presentation from reading assignment	score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score) • Daily observed assessment. - Feedback At the end of each assessment.

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
					surgery. Clinical evaluation of bupivacaine and etidocaine for mandibular nerve block. <i>International journal of oral and maxillofacial surgery</i> . 1986;15(2):119-26.		
Week #12 (3 hours) Jan 15, 2020 (9-12 am)	Journal club # 9: Orthognathic surgery Student: MS#9 Sadeq Maslat Qanah Lecturer: Prof. Natthamet	To understand and explain about complications related to orthognathic surgery. To understand the use of computer-aided techniques in orthognathic surgery.	1, 3, 5,7,	- Presentations. - Discussion-based - Q&A	- Materials - Power point presentation - Resources 1. C.S. Sousa, R.N.T. Turrini Complications in orthognathic surgery: a comprehensive review <i>J Oral Maxillofac Surg Med Pathol</i> , 2 (2012), pp. 67-74 2. Kim, J., Kim, J., Jeong, C., Cheon, K., Cho, S., Park, I., &	- Search and review academic articles about complications and advancements in orthognathic surgery from journals and e-journals - Reading assignment. - Presentation from reading assignment	-Formative assessment - Criteria by using rubric score 1, 2, 3, 4, 5. - Pass examination criteria = 80% of formative assessment score) • Daily observed assessment. - Feedback

Week No. (Hours) Date	Topics Lecturer/Instructor	Learning Objectives (Students are able to...)	The 21 st Century Skills	Teaching Methods/ Activities/Class management	Materials and Resources	Assignments/ Guided reading	Evaluation/ Criteria
					Yang, B. (2019). The accuracy and stability of the maxillary position after orthognathic surgery using a novel computer-aided surgical simulation system. <i>BMC Oral Health</i> , 19.		At the end of each assessment.

As mentioned above, generic skills on the 21st skills are emphasized across curricular. Details are as follows:

1. Literacy
2. Numeracy
3. Reasoning
4. Problem Solving
5. Critical Thinking
6. Collaboration
7. Communication
8. Computing
9. Career and Life skills
10. Cross-Cultural Skills

Textbook

1. Required Textbooks

1. Peterson's Principles of Oral and Maxillofacial Surgery -Third Edition. Michael Miloro, G. E. Ghali, Peter E. Larsen, Waite PD, editors. Shelton, Connecticut: People's Medical Publishing House–USA; 2012.

2. CONTEMPORARY ORAL and MAXILLOFACIAL SURGERY. 7th ed. James R. Hupp, Myron R. Tucker, III EE, editors. Philadelphia: Elsevier; 2019.

2. Recommended Textbooks

1. Fonseca RJ. (2017). Oral and maxillofacial surgery: 3-volume set 3rd edition, North Carolina, ELSEVIER.

2. Randolph R. Resnik. Misch's Contemporary Implant Dentistry- 4th ed. Elsevier; 2020

3. Scholarly articles (There must always be journal articles as additional resources.)

1. Renton T. Dental (Odontogenic) Pain. *Rev Pain.* 2011;5(1):2-7. doi:10.1177/204946371100500102
2. Delcanho R, Moncada E. Persistent pain after dental implant placement: A case of implant-related nerve injury. *The Journal of the American Dental Association.* 2014;145(12):1268-71.
3. Wright JM, Soluk Tekkesin M. Odontogenic tumors: where are we in 2017 ?. *J Istanbul Univ Fac Dent.* 2017;51(3 Suppl 1):S10-S30.
4. Teixeira LN, Furuse C, Santos FP, et al. The Challenging Diagnosis of Primordial Odontogenic Tumor. *Case Rep Dent.* 2019;2019:6415785.
5. Al-Samman AA, Al-Nuaime OS. Gustatory Changes Following Mandibular Third Molar Surgery: A Systematic Review of the Literature. *World J Oral Maxillofac Surg.* 2018;1(3): 1015
6. Hu T, Zhang J, Ma JZ, et al. A novel method in the removal of impacted mandibular third molar: buccal drainage. *Sci Rep.* 2017;7(1):12602.
7. Syed KB, AlQahtani FH, Mohammad AH, Abdullah IM, Qahtani HS, Hameed MS. Assessment of pain, swelling and trismus following impacted third molar surgery using injection dexamethasone submucosally: A prospective, randomized, crossover clinical study. *J Int Oral Health* 2017;9:116-21
8. P, Rilna & R, Sathyanarayanan & K, Raghu & J, Nithin & K, Sankar & MR, Ramesh. (2019). Assessment of Pain, Swelling, Trismus Following Impacted Lower Third Molar Surgery, With Pre-Operative Single Dose Oral Dexamethasone: A Prospective, Randomized Double Blind Controlled Clinical Trial. *Journal of Dental*

- and Maxillofacial Surgery. 155-163.
10.18314/jdms.v2i1.1730.
9. Balster, R.L., Prescott, W.R. Δ 9-Tetrahydrocannabinol discrimination in rats as a model for cannabis intoxication. *Neuroscience and Biobehavioral Reviews*. 1992; 16 (1), 55-62.
 10. Lile JA, Kelly TH, Hays LR. Separate and combined effects of the GABAA positive allosteric modulator diazepam and Δ 9-THC in humans discriminating Δ 9-THC. *Drug Alcohol Depend*. 2014;143:141-148. Swami V, Vijayaraghavan V, Swami V. Current trends to measure implant stability. *J Indian Prosthodont Soc*. 2016;16(2):124-130.
 11. Mistry G, Shetty O, Shetty S, Singh RD. Measuring implant stability: A review of different methods. *J Dent Implant* 2014;4:165-9
 12. Deliverska EG, Petkova M. Complications after extraction of impacted third molars- literature review. *J of IMAB*. 2016 Jul-Sep;22(3):1202-1211.
 13. Alani AF and Al-Delayme RM. A Critically Discussion and Evaluation of the Systemic and Local
 14. Complication of Exodontia. *Austin J Dent*. 2018; 5(1):1098.
 15. Danielsson K, Evers H, Holmlund A, Kjellman O, Nordenram A, Persson NE. Long-acting local anaesthetics in oral surgery. Clinical evaluation of bupivacaine and etidocaine for mandibular nerve block. *International journal of oral and maxillofacial surgery*. 1986;15(2):119-26.
 16. C.S. Sousa, R.N.T. Turrini Complications in orthognathic surgery: a comprehensive review. *J Oral Maxillofac Surg Med Pathol*, 2 (2012), pp. 67-74

17. Kim, J., Kim, J., Jeong, C., Cheon, K., Cho, S., Park, I., & Yang, B. (2019). The accuracy and stability of the maxillary position after orthognathic surgery using a novel computer-aided surgical simulation system. BMC Oral Health, 19.

Develop effective learning environments and approaches to student support and guidance (A4, UKPSF)

1. Consultation hours per week for individual students

Lecturing Team	Lecturer	Office Number	Phone Number	Email, LINE, Facebook, etc.	Consultation Time*
Course Coordinator	Dr. Bishwa Prakash Bhattarai		092-7908294	bishwa052@gmail.com	Office hours
Course Coordinator	Dr. Panomwat Amornphimoltham	0-7567-1146 ext 1146, 1150		pa79wa@gmail.com	appointment in advance
Lecturer	Prof. Dr. Natthamet Wongsirichat		081-909 5625.	natthamet.wo@mail.wu.ac.th	Office hours

* Or other times as agreed by both student and lecturer.

Learning Supported Technologies/Applications

- WU E-learning
 Facebook
 Google Education
 Mobile applications
 Others

Diverse Learners Support

- None

Types of Learners with special needs: (Please specify)

None

Support plans and actions (Optional)

Students can use internet to support their answers when in the classroom.

Learning skills advice (Optional)

1. Students must read and understand the articles assignment before the class in WU e-learning. If there are any questions, students can write the questions in the shot note and send by e-mail or directly ask in the class.
2. Students must write the important issues in mind mapping or in the shot note for revising and understanding later.

Course Policy/Regulations

- Student must attend the classes not less than 80% of all classes, otherwise student cannot attend the final examination.
- Delayed in submission of the assigned work in the course will receive not more than 50% of the total scores or fail due to the committee.
- If fraud in the mid-term and final exams, the results are immediately F.
- Student must follow the rules and regulations of Walailak University and WUICD.

Plagiarism

Using someone else's text or work without attribution is plagiarism, whether student meant to do it or not. Unintentional plagiarism of even a sentence or two can have serious consequences, specially someone's work. For students, plagiarism often means a failing grade, academic probation, or worse. Students will not pass this course or their works if this happened.

Assess and give feedback to learners (A3, UKPSF)

The 21st Century Skills Enhancement

1. Morality and ethics

Morality and ethics skills/characteristics to be developed	Assessment methods
○ 1.1 Exhibit discipline, punctuality, honesty and responsibility. Respecting to rules and laws of organizations and societies.	Class activities
● 1.2 Demonstrate ethical behavior in academic. No plagiarism.	Assignments, class activities and presentations
○ 1.3 Respect to others' opinions and accepting the differences in individual both in academia and profession.	Class activities.

2. Knowledge

Knowledge skills/characteristics to be developed	Assessment methods
● 2.1 Be able to understand and use the knowledge in all topics. Develop self-	Assignments, class activities and presentations

Knowledge skills/characteristics to be developed	Assessment methods
learning skill and seek new knowledge	
● 2.2 Be able to analyze the orthodontic cases with skill in orthodontic professional.	Assignments, class activities and presentations

3. High order thinking

skills/characteristics to be developed	Assessment methods
● 3.1 Be able to explain the orthodontic diagnosis, understand, and assess information from the evidence.	Assignments, class activities and presentations
○ 3.2 Be able to think and analyze systematically, be reasonable, creative, and imaginative in each topic.	Class activities
○ 3.3 Adapt and apply information for the new knowledge development in each topic.	Class activities

4. Interpersonal relationship and responsibility

Interpersonal relationship and responsibility skills/characteristics to be developed	Assessment methods
● 4.1 Creatively collaborate and appropriately interact to others.	Assignments, class activities and presentations
○ 4.2 Accept the differences in academic opinions and well demonstrate both leadership and followership.	Class activities
○ 4.3 Exhibit responsibility in self and group.	Class activities

5. Numeracy, communication, and information literacy skills

Numeracy, communication, and information literacy skills to be developed	Assessment methods
○ 5.1 Adequately apply the knowledge from reading the articles for presentation	Class activities
○ 5.2 Appropriately apply information technology in data searching, collecting,	Class activities

Numeracy, communication, and information literacy skills to be developed	Assessment methods
processing, interpretation and presentation	
● 5.3 Effectively apply communication skills (speaking, listening and writing) in academic environment both formal and informal situation.	Assignments, class activities and presentations
○ 5.4 Use English to skillfully communicate in academic presentation, both in formal and informal setting.	Class activities

Learning Outcome Assessment Plan

No.	Learning Outcomes (PLO)	Assessment Methods	Assignment submission deadline	Assessment Proportion (Percentage)
1	1.1, 1.2, 1.3,	-Direct observation from class participation and behavior - Formative assessment	Every study session.	20%
2	2.1, 2.2, 3.1, 3.2, 3.3,	- Direct observation from explanation in the presentation and answering the questions. - Formative assessment	Every study session.	50%
3	4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 5.4	-Direct observation from presentation - Formative assessment	Every study session.	30%

The Assessment form

A daily assessment form of the skills enhancement

Characteristics to be developed	Scale 1 -5
<i>Morality and ethics skills:</i> complete all required readings on time, respect one another	
<i>Knowledge:</i> -be knowledgeable in the subject-matters, able to make connections and apply subject-matters	
<i>High order thinking:-</i> critical thinking and analysis	
<i>Interpersonal relationship and responsibility:</i> participation	
<i>Numeracy, communication, and information literacy skills:</i> - apply proper statistical techniques, able to apply ICT in presentation	
Total score	
Feed back	

1 =Very Poor 2= Poor, 3= Fair, 4= Good 5= Very Good

Assessment form of Presentation

Learning Objective	- Understand and discuss the main objective of the academic article(s) correctly.		
Individual / Group Assignment	- Individual assignment		
Score Proportion	none		
Assignment requirements and deadline	- Prepare an abstract in advance and do a complete presentation in each class		
Submission Deadline			
	Scale (Adaptable)		
Requirements	5 Excellent	3 Fair	1 Need improvement
<ul style="list-style-type: none"> • Presentation cover the objective of the topic • Interesting idea or student's opinion in the presentation • Team work 	<ul style="list-style-type: none"> • Presentation cover most of the objective of the topic • Have very good interesting idea or student's opinion in the presentation • Show very good team work in presentation 	<ul style="list-style-type: none"> • Presentation cover half of the objective of the topic • Have good interesting idea or student's opinion in the presentation • Show good team work in presentation 	<ul style="list-style-type: none"> • Presentation cover some of the objective of the topic • Have not much interesting idea or student's opinion in the presentation • Show not a good team work in presentation

Feedback:

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Grading Criteria

Using the eight levels fixed rate assessment as shown in the following table

Grade Level	Meaning	Score	Grade Value
A	Excellent	100-90	4.0
B+	Very Good	>90-85	3.5
B	Good	>85-80	3.0
C+	Fairly Good	>80-75	2.5
C	Fair	>75-70	2.0
D+	Poor	>70-65	1.5
D	Very Poor	>65-60	1.0
F	Fail	>60	0.0

I refers to "Incomplete Assessment"

W refers to "Withdraw"

Lecturer's use only: For Future Improvement of the Course
 Engage in continuing professional development in subjects/disciplines and their pedagogy, incorporating research, scholarship and the evaluation of professional practices (A5, UKPSF)

Course Evaluation and Future Improvement

1. **Teaching Evaluation Strategy (Please put ✓ in . You can choose more than 1 methods.)**
 - Every student evaluates
 - By examining students' results
 - Comments from examiner's meeting
 - Others.....

2. **Strategies for course effectiveness evaluation by students**
 Bring the course evaluations and summaries to course committee seminars on the learning and teaching management to discuss how to improve course contents and teaching methods regarding the comments of students and course lecturers. Thereafter, propose the improvement plan to curriculum committee.

3. **Teaching Future improvement**
 - 3.1. Organization of meeting and/or seminars among teaching staff and the curriculum committee at the end of the course to discuss on how to improve the course contents and/or teaching methods based on course assessment by students and evaluation by curriculum committee
 - 3.2. Proposing the improvement plan to the curriculum committee for further discussion and approval.

4. **Evaluation of students' success in learning**
 - 4.1 Verify quality of the results of formative assessment and students' score by course coordinator and bring the results

to course committee and curriculum committee seminars to discuss on how to improve students' learning outcome.

4.2. Able to critique various articles logically and apply to dairy life.

5. Plans and actions for course improvement

5.1. At the end of every academic year the course committee as well as related staffs will summarize and analyze the assessment of teaching, exam results, feedback evaluation from student and stakeholder evaluation to develop a plan of action to implement the course.

5.2. Course educational objectives will be assessed and reviewed every two years.

----- Lecturer's use only -----

6. Experience sharing on teaching and learning participation

6.1 Please select how you share your teaching and learning experiences by put ✓ in . You can choose more than 1 methods.

- Participate in the university's monthly Teaching and Learning colloquium
Please specify the month
- Publish an article in an online newsletter
Please specify the newsletter detail
- Summarized the teaching and learning result in the template from
to be gathered in Walailak Digital Learning Repository (WDLR)
- Publish in national or international journal
Please specify the journal detail
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- Presented in national or international conferences
Please specify the conference's detail
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6.2 Sharing results from 6.1

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