

## Course Syllabus

<b>1. Course Number</b>	3200-952
<b>2. Course Credit</b>	1(1-0-3)
<b>3. Course Title</b>	Esthetic dental clinic and laboratory design
<b>4. Faculty/ Department</b>	Faculty of Dentistry
<b>5. Semester</b>	First semester
<b>6. Academic year</b>	2012
<b>7. Instructor</b>	Assist. Prof. Vichet Chindavanig Aj. Piyawan Leevairoj Assoc. Prof. Chalernpol Leevairoj
<b>8. Condition</b>	None
<b>9. Status:</b>	Elective
<b>10. Curriculum:</b>	Esthetic dentistry
<b>11. Degree:</b>	Post-graduate
<b>12. Hour/ week:</b>	1 hour/ week

### **13. Course description:**

This subject shall provide principles and concepts regarding planning and designing dental offices. The offices are varies in sizes. They may consist of clinical and laboratory sections at which both sections convey beauty, tranquility and with naturally balanced interior and exterior space. Subtopics are 1) surrounding landscape to attract and reflect idealistic dentistry, 2) balanced theme and its décor to provide pleasant atmosphere, 3) ergonomics and clean environment to enhance working efficiency and controlling cross infection, 4) relevant integration of other factors, such as form, function, texture and color to reflect professional standard.

### **14. Course outline**

Interior, floor design - operatory area, business area, reception area, laboratory room, dark room, restroom, storage and closet room, corridor and lavatory etc.; Exterior: color, texture, atmosphere, landscape, private area, parking area, security, ramp for disable patients: Ergonomic: traffic flow and work density, cost & materials, background noise control. The ultimate goal is to create floor plan and environment that provide comfort as well as optimize cost effective.

Designing a dental office of your own will make you a series of planning steps. It is to assist communicating with professional designer. The following method of office planning develops basic traffic patterns by the use of block diagrams to plan your needs. The block diagrams are then developed into actual plans. Whether you build a new or renovate, the basic flow remains necessary to

fulfill a good traffic pattern. After the plan is established, other considerations necessary to complete the office are discussed. The course content will stimulate student thinking process, encourage good design to enable the wish to accomplish. Moreover, well design environment, both interior and exterior shall fulfill staff and patients comfort as well as safety measure.

#### **14.1 Learning objectives**

Be able to criticize, decide, corporate, and work with architect or interior designer efficiently. The ultimate outcome should maximize benefit and minimize expense to dental office investing for building and office management.

#### **14.2 Learning contents**

- 14.2.1 Introduction to the subject, Objectives of course , Assigning groups works
- 14.2.2 Dental office design ; floor Planning , principles of operatory area design , dimensions , partitions area management
- 14.2.3 Interior design ; concerning to material properties, local availability
- 14.2.4 Electrical and mechanical equipments: electrical supply, piping, compress air supply, water supply
- 14.2.5 Traffic flow and ergonomics
- 14.2.6 Exterior; color, atmosphere, landscape, privacy, parking, security
- 14.2.7 Cost & materials, background noise control, critical thinking, decision making

#### **14.1 Methods**

- Lecture, Brainstorming and discussion of case study, students learn to analyze, criticize and solve problems, making summary of the main point or presentation of the results from researching data, or from assigned tasks

#### **14.2 Media**

- PowerPoint media
- Electronics and website media

#### **14.3 Assignment through network**

- Assigning and Submitting Method
- Learning Management System

#### 14.4 Evaluation

- Assessment of work or classroom activities 50 %
- Assessment of the assigned tasks 50 %

### 15 Reading list

#### 15.1 Required Text

15.1.1 Dental Practice Information Manual. ADA Manual, 1985.

<http://catalog.hathitrust.org/Record/000423776>

15.1.2 The Successful Dental Practice: An Introduction. ADA Book, 1988

<http://www.worldcat.org/title/successful-dental-practice-an-introduction/oclc/19645156>

15.1.3 Dental operator function and design. Vanek HG, Gray RS.

Cleveland Western Reserve, 1985.

<http://www.worldcat.org/title/dental-operator-function-and-design/oclc/10097698>

15.1.4 Medical and dental space planning: a comprehensive guide to design, equipment and clinical procedures. Malkin J. John Wileys and Son, 2002.

[http://books.google.com/books/about/Medical\\_and\\_dental\\_space\\_planning.html?id=DinDxI9yKM5C](http://books.google.com/books/about/Medical_and_dental_space_planning.html?id=DinDxI9yKM5C)

15.1.5 A Dental Treasure Chest: Tips and tricks for daily practice. Wolfram

Bücking, Translated from the German by Ulrike Heiß and Laura Russell. London, Berlin, Chicago, Tokyo, Quintessence Publishing, 2007 .Ch8,291-308.

(ergonomics)

[http://www.quintpub.com/display\\_detail.php3?psku=B9019](http://www.quintpub.com/display_detail.php3?psku=B9019)

#### 15.2 Additional reading (Journals)

15.2.1 อาษา วารสารสถาปัตยกรรมของสมาคมสถาปนิกสยาม ในพระบรมราชูปถัมภ์ หรือ ASA : The Architectural Journal of the Siamese Architects Under Royal Patronage

<http://www.asa.or.th/>

15.2.2 ACT วารสารสภาสถาปนิก The Journal of Architect Council of Thailand

<http://www.act.or.th/journal/index.html>

#### 15.3 Additional reading

15.3.1 พระราชบัญญัติควบคุมอาคาร พ.ศ. 2522

[http://www.fire2fight.com/document/Policy\\_tower\\_2522.pdf](http://www.fire2fight.com/document/Policy_tower_2522.pdf)

15.3.2 กฎหมายควบคุมอาคาร

[http://www.technologymedia.co.th/PDF/etoday63\\_51/049-053.pdf](http://www.technologymedia.co.th/PDF/etoday63_51/049-053.pdf)