

**Republic of Yemen**  
**Ministry of Higher Education & Scientific Research**  
**Emirates International University**



**Faculty of Dentistry**  
**Department of Oral Surgery**

**Doctor of Dental Surgery**  
**Course Specification of Infection disease**  
**Course No. (-----)**



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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty



## I. Course Identification and General Information:

|    |  |  |              |          |            |
|----|--|--|--------------|----------|------------|
| 1  | Course Title:  | Infection disease                                |              |          |            |
| 2  | Course Code & Number:                                  | ----   |              |          |            |
| 3  | Credit Hours:  | Credit Hours                                     | Theory Hours |          | Lab. Hours |
|    |  |  | Lecture      | Exercise |            |
|    |  | 2  | 2            | --       | --         |
| 4  | Study Level/ Semester at which this Course is offered: | 2 <sup>nd</sup> Level / 2 <sup>nd</sup> Semester |              |          |            |
| 5  | Pre –Requisite (if any):                               | Microbiology and Immunology                      |              |          |            |
| 6  | Co –Requisite (if any):                                | None   |              |          |            |
| 7  | Program (s) in which the Course is Offered:            | Doctor of Dental Surgery                         |              |          |            |
| 8  | Language of Teaching the Course:                       | English  |              |          |            |
| 9  | Study System:  | Semester based System                            |              |          |            |
| 10 | Mode of Delivery:                                      | Full Time  |              |          |            |
| 11 | Location of Teaching the Course:                       | Faculty of Dentistry                             |              |          |            |
| 12 | Prepared by:   | Dr. Sam Da'er                                    |              |          |            |

## II. Course Description:

The purpose of this course to learn different skills and clinically related topics for performing all means available for infection control in the dental clinic. It include stage of infection, control of airborn infections and control of infection in dentistry



| III. Course Intended Learning Outcomes (CILOs) :<br>Upon successful completion of the course, students will be able to: |   | Referenced PILOs<br>Learning out of program |    |
|---|---|---|----|
| <b>A. Knowledge and Understanding:</b>  |   | I, A<br>or E                                |    |
| a1  | Identify the infection control and purpose of infection control         |   | A3 |
| a2  | Describe stages and chain of infection                                  |   | A4 |
| a3  | Identify the predisposing factors of infection                          |   | A3 |
| a4  | Describe what are the airborne infections and how it spread.            |   | A2 |
| <b>B. Intellectual Skills:</b>  |   |   |    |
| b1  | Discuss the difference between all types of blood born infections.      |   | B2 |
| b2  | Describe the importance of the infection control in dentistry           |   | B4 |
| <b>C. Professional and Practical Skills:</b>  |   |   |    |
| c1  | Achieve all means available for infection control in the dental clinic. |   | C3 |
| <b>D. Transferable Skills:</b>  |   |   |    |
| d1  | Work in collaboration as a member of an interdisciplinary team.         |   | D3 |

| (A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods: |  |   |
|---|--|---|
| Course Intended Learning Outcomes   | Teaching Strategies  | Assessment Strategies   |
| a1  | <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> </ul> | <ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul> |
| a2  | <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> </ul> | <ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul> |



|    |  |  |   |
|----|--|--|---|
| a3 | Identify the predisposing factors of infection               | <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> </ul> | <ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul> |
| a4 | Describe what are the airborne infections and how it spread. | <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> </ul> | <ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul> |

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

| Course Intended Learning Outcomes |  | Teaching Strategies  | Assessment Strategies   |
|-----------------------------------|--|--|---|
| b1                                | Discuss the difference between all types of blood born infections. | <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> </ul> | <ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul> |
| b2                                | Describe the importance of the infection control in dentistry      | <ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussion</li> </ul> | <ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul> |

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

| Course Intended Learning Outcomes |   | Teaching Strategies   | Assessment Strategies  |
|-----------------------------------|---|---|--|
| c1                                | Achieve all means available for infection control in the dental clinic. | <ul style="list-style-type: none"> <li>- Discussion</li> <li>- Self Learning</li> <li>- Presentation</li> <li>- Seminars</li> </ul> | <ul style="list-style-type: none"> <li>Research</li> <li>Homework</li> <li>Group work</li> </ul> |

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

| Course Intended Learning Outcomes |   | Teaching Strategies   | Assessment Strategies  |
|-----------------------------------|---|---|--|
| d1                                | Work in collaboration as a member of an interdisciplinary team. | <ul style="list-style-type: none"> <li>- Discussion</li> <li>- Self Learning</li> <li>- Presentation</li> <li>- Seminars</li> </ul> | <ul style="list-style-type: none"> <li>Research</li> <li>Homework</li> <li>Group work</li> </ul> |

**IV. Course Contents:**

**A. Theoretical Aspect:**

| No. | Units/Topics List | Sub Topics List  | Number of Weeks | Contact Hours | Learning Outcomes (CILOs) |
|-----|-------------------|--|-----------------|---------------|---------------------------|
| 1   | Introduction to   | – Defined and classification of various microorganisms, and discusses host | 1 <sup>st</sup> |               | al                        |

| No.  | Units/Topics List                       | Sub Topics List   | Number of Weeks                    | Contact Hours | Learning Outcomes (CILOs) |
|--|---|---|------------------------------------|---------------|---------------------------|
|  | <b>infection control</b>                | susceptibility and immune defense mechanisms  |                                    |               |                           |
| 2  | <b>Stages and causes of infection</b>   | <ul style="list-style-type: none"> <li>- incubation</li> <li>- prodromal</li> <li>- illness</li> <li>- decline</li> <li>- convalescence</li> </ul>  | 2 <sup>nd</sup>                    | 2             | a2                        |
| 3  | <b>Terminology related to infection</b> | <ul style="list-style-type: none"> <li>- Emergency disease</li> <li>- Epidemic</li> <li>- Microbe</li> <li>- Pandemic</li> </ul>  | 3 <sup>rd</sup>                    | 2             | a3, b1                    |
| 4  | <b>Airborne infections</b>              | <ul style="list-style-type: none"> <li>- Anthrax.</li> <li>- Aspergillosis.</li> <li>- Blastomycosis.</li> <li>- Chickenpox.</li> <li>- Adenovirus.</li> <li>- Enteroviruses.</li> <li>- Rotavirus.</li> <li>- Influenza</li> </ul> | 4 <sup>th</sup>                    | 2             | a4, b1                    |
| 5  | <b>Control of airborn infections</b>    | PPE, injection safety, environmental cleaning, and respiratory hygiene/cough etiquette) and transmission-based precautions (contact, droplet, and airborne  | 5 <sup>th</sup> -7 <sup>th</sup>   | 6             | a4, b1, b2                |
| 6  | <b>Mid-Term Theoretical Exam</b>        |   | 8 <sup>th</sup>                    | 2             | a1-a4, b1, b2             |
| 7  | <b>Control of blood born infections</b> | <ul style="list-style-type: none"> <li>- This unit is about the three main Blood Borne Viruses, HIV, Hepatitis C and Hepatitis B</li> </ul>   | 9 <sup>th</sup> -11 <sup>th</sup>  | 6             | a3, b1                    |
| 8  | <b>Infection control in dentistry</b>   | Chemical and instruments used in infection control  | 12 <sup>th</sup> -14 <sup>th</sup> | 6             | a3, b1,b2                 |
| 9  | <b>Revision</b>                         | - ...   | 15 <sup>th</sup>                   | 2             | a1-a4, b1, b2             |
| 10   | <b>Final Theoretical Exam</b>           |   | 16 <sup>th</sup>                   | 2             | a1-a4, b1, b2             |
| <b>Number of Weeks /and Units Per Semester</b> |   |   |                                    |               |                           |



### V. Teaching Strategies of the Course:

- Lectures
- Discussion
- Seminars
- Presentation
- Self-Learning

### VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Research
- Homework
- Group work

### VII. Assignments:

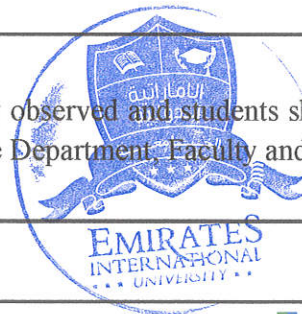
| No.          | Assignments  | Week Due                          | Mark      | Aligned CILOs (symbols) |
|--------------|--------------|-----------------------------------|-----------|-------------------------|
| 1            | presentation | 2 <sup>nd</sup> -15 <sup>th</sup> | 10        | b1, b2, c1, d1          |
| <b>Total</b> |              |                                   | <b>10</b> |                         |

### VIII. Schedule of Assessment Tasks for Students During the Semester:

| No.          | Assessment Method | Week Due                              | Mark       | Proportion of Final Assessment | Aligned Course Learning Outcomes |
|--------------|-------------------|---------------------------------------|------------|--------------------------------|----------------------------------|
| 1            | Quiz              | 4 <sup>th</sup> ,<br>12 <sup>th</sup> | 10         | 10%                            | a1-a4, b1, b2                    |
| 2            | Mid-term exam     | 8 <sup>th</sup>                       | 20         | 20%                            | a1-a4, b1, b2                    |
| 3            | Assignment        | 2 <sup>nd</sup> -<br>15 <sup>th</sup> | 10         | 10%                            | b1, b2, c1, d1                   |
| 4            | Final theory      | 16 <sup>th</sup>                      | 60         | 60%                            | a1-a4, b1, b2                    |
| <b>Total</b> |                   |                                       | <b>100</b> | <b>100%</b>                    |                                  |

| <b>IX. Learning Resources:</b>  |  |
|---|--|
| <b>1- Required Textbook(s) ( maximum two ):</b>   |  |
| Melanie S. Curless, Chandrakant S. Ruparelia, Elizabeth Thompson, and Polly A. Trexler, Infection prevention and control                  |  |
| <b>2- Essential References:</b>   |  |
| Nizam Damani, 2019, Manual of Infection Prevention and Control ,Basic Infection Control for Healthcare Providers, 4 <sup>th</sup> edition |  |
| <b>3- Electronic Materials and Web Sites etc.:</b>  |  |
| <a href="https://www.ajicjournal.org/">https://www.ajicjournal.org/</a>   |  |

| <b>X. Course Policies: (Based on the Uniform Students' By law (2007))</b> |  |
|---|--|
| <b>1</b>  | <b>Class Attendance:</b><br>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.  |
| <b>2</b>  | <b>Tardiness:</b><br>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.  |
| <b>3</b>  | <b>Exam Attendance/Punctuality:</b><br>No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.  |
| <b>4</b>  | <b>Assignments &amp; Projects:</b><br>Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.   |
| <b>5</b>  | <b>Cheating:</b><br>Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.  |
| <b>6</b>  | <b>Forgery and Impersonation:</b><br>Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply. |
| <b>7</b>  | <b>Other policies:</b><br>The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.                                     |





## Faculty of Dentistry

### Department of Oral Surgery

### Doctor of Dental Surgery

### Course Plan (Syllabus) of Infection disease

Course No. ( ----- )

| I. Information about Faculty Member Responsible for the Course: |  |              |     |     |     |     |     |
|---|--|--------------|-----|-----|-----|-----|-----|
| Name of Faculty Member:   |  | Office Hours |     |     |     |     |     |
| Location & Telephone No.:                                       |  |              |     |     |     |     |     |
| E-mail:   |  | SAT          | SUN | MON | TUE | WED | THU |





| II. Course Identification and General Information: |  |                             |              |          |            |
|--|--|-----------------------------|--------------|----------|------------|
| 1  | Course Title:  | Infection disease           |              |          |            |
| 2  | Course Code & Number:                                  | ----                        |              |          |            |
| 3  | Credit Hours:  | Credit Hours                | Theory Hours |          | Lab. Hours |
|  |  |                             | Lecture      | Exercise |            |
|  |  | 2                           | 2            | --       | --         |
| 4  | Study Level/ Semester at which this Course is offered: | 2nd Level / 2nd Semester    |              |          |            |
| 5  | Pre –Requisite (if any):                               | Microbiology and Immunology |              |          |            |
| 6  | Co –Requisite (if any):                                | None                        |              |          |            |
| 7  | Program (s) in which the Course is Offered:            | Doctor of Dental Surgery    |              |          |            |
| 8  | Language of Teaching the Course:                       | English                     |              |          |            |
| 9  | Study System:  | Semester based System       |              |          |            |
| 10   | Mode of Delivery:                                      | Full Time                   |              |          |            |
| 11   | Location of Teaching the Course:                       | Faculty of Dentistry        |              |          |            |
| 12   | Prepared by:   | Dr. Sam Da'er               |              |          |            |

### III. Course Description:

The purpose of this course to learn different skills and clinically related topics for performing all means available for infection control in the dental clinic. It include stage of infection, control of airborne infections and control of infection in dentistry



| <b>IV. Course Intended Learning Outcomes (CILOs) :</b><br>Upon successful completion of the Course, student will be able to: |   |
|--|---|
| <b>A. Knowledge and Understanding:</b>   |   |
| a1   | Identify the infection control and purpose of infection control         |
| a2   | Describe stages and chain of infection                                  |
| a3   | Identify the predisposing factors of infection                          |
| a4   | Describe what are the airborne infections and how it spread.            |
| <b>B. Intellectual Skills:</b>   |   |
| b1   | Discuss the difference between all types of blood born infections.      |
| b2   | Describe the importance of the infection control in dentistry           |
| <b>C. Professional and Practical Skills:</b>   |   |
| c1   | Achieve all means available for infection control in the dental clinic. |
| <b>D. Transferable Skills:</b>   |   |
| d1   | Work in collaboration as a member of an interdisciplinary team.         |

| <b>V. Course Contents:</b>    |  |   |                 |               |
|-------------------------------|--|---|-----------------|---------------|
| <b>A. Theoretical Aspect:</b> |  |   |                 |               |
| No.                           | Units/Topics List                        | Sub Topics List   | Number of Weeks | Contact Hours |
| 1                             | <b>Introduction to infection control</b> | <ul style="list-style-type: none"> <li>- Defined and classification of various microorganisms, and discusses host susceptibility and immune defense mechanisms</li> </ul> | 1 <sup>st</sup> | 2             |
| 2                             | <b>Stages and causes of infection</b>    | <ul style="list-style-type: none"> <li>- incubation</li> <li>- prodromal</li> <li>- illness</li> <li>- decline</li> <li>- convalescence</li> </ul>                        | 2 <sup>nd</sup> | 2             |
| 3                             | <b>Terminology related to infection</b>  | <ul style="list-style-type: none"> <li>- Emergency disease</li> <li>- Epidemic</li> <li>- Microbe</li> <li>- Pandemic</li> </ul>  | 3 <sup>rd</sup> | 2             |



| No.  | Units/Topics List                | Sub Topics List   | Number of Weeks                    | Contact Hours |
|--|----------------------------------|---|------------------------------------|---------------|
| 4  | Airborne infections              | <ul style="list-style-type: none"> <li>- Anthrax.</li> <li>- Aspergillosis.</li> <li>- Blastomycosis.</li> <li>- Chickenpox.</li> <li>- Adenovirus.</li> <li>- Enteroviruses.</li> <li>- Rotavirus.</li> <li>- Influenza</li> </ul> | 4 <sup>th</sup>                    | 2             |
| 5  | Control of airborn infections    | <ul style="list-style-type: none"> <li>- PPE, injection safety, environmental cleaning, and respiratory hygiene/cough etiquette) and transmission-based precautions (contact, droplet, and airborne</li> </ul>                      | 5 <sup>th</sup> -7 <sup>th</sup>   | 6             |
| 6  | Mid-Term Theoretical Exam        |   | 8 <sup>th</sup>                    | 2             |
| 7  | Control of blood born infections | <ul style="list-style-type: none"> <li>- This unit is about the three main Blood Borne Viruses, HIV, Hepatitis C and Hepatitis B</li> </ul>   | 9 <sup>th</sup> -11 <sup>th</sup>  | 6             |
| 8  | Infection control in dentistry   | Chemical and instruments used in infection control  | 12 <sup>th</sup> -14 <sup>th</sup> | 6             |
| 9  | Revision                         | - ...   | 15 <sup>th</sup>                   | 2             |
| 10   | Final Theoretical Exam           |   | 16 <sup>th</sup>                   | 2             |
| <b>Number of Weeks /and Units Per Semester</b> |                                  |   | <b>16</b>                          | <b>32</b>     |

## VI. Teaching Strategies of the Course:

- Lectures
- Discussion
- Seminars
- Presentation
- Self-Learning



### VII. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Research
- Homework
- Group work

### VIII. Assignments:

| No.          | Assignments  | Week Due  | Mark      |
|--------------|--------------|-----------|-----------|
| 1            | presentation | 2nd -15th | 10        |
| <b>Total</b> |              |           | <b>10</b> |

### IX. Schedule of Assessment Tasks for Students During the Semester:

| No.          | Assessment Method | Week Due                           | Mark       | Proportion of Final Assessment |
|--------------|-------------------|------------------------------------|------------|--------------------------------|
| 1            | Quiz              | 4 <sup>th</sup> , 12 <sup>th</sup> | 10         | 10%                            |
| 2            | Mid-term exam     | 8 <sup>th</sup>                    | 20         | 20%                            |
| 3            | Assignment        | 2 <sup>nd</sup> -15 <sup>th</sup>  | 10         | 10%                            |
| 4            | Final theory      | 16 <sup>th</sup>                   | 60         | 60%                            |
| <b>Total</b> |                   |                                    | <b>100</b> | <b>100%</b>                    |

### X. Learning Resources:

#### 1- Required Textbook(s) ( maximum two ):

Melanie S. Curless, Chandrakant S. Ruparelia, Elizabeth Thompson, and Polly A. Trexler, Infection prevention and control

#### 2- Essential References:

Nizam Damani, 2019, Manual of Infection Prevention and Control, Basic Infection Control for



Healthcare Providers, 4th edition

**3- Electronic Materials and Web Sites etc.:**

<https://www.ajicjournal.org/>

**XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))**

|   |   |
|---|---|
|   | <b>Class Attendance:</b>  |
| 1 | Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.   |
|   | <b>Tardiness:</b>   |
| 2 | A student will be considered late if he/she is not in class after 10 minutes of the start time of class.  |
|   | <b>Exam Attendance/Punctuality:</b>   |
| 3 | No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.  |
|   | <b>Assignments &amp; Projects:</b>  |
| 4 | Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.  |
|   | <b>Cheating:</b>  |
| 5 | Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.                       |
|   | <b>Forgery and Impersonation:</b>   |
| 6 | Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply. |
|   | <b>Other policies:</b>  |
| 7 | The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.                          |



Handwritten signatures and stamps are present at the bottom of the page. On the left, there are two handwritten signatures. In the center, there is a circular blue stamp of the Emirates International University. On the right, there is another handwritten signature.