

Faculty  
Clinical

**Republic of Yemen**  
**Ministry of Higher Education & Scientific Research**  
**21 September University of Medicals & Applied Sciences**

of



Pharmacy

**Program of Pharm. D.**

**Course Specification of Hospital Training: Psychiatric**

**Course No. (02.05.261)**

**2021/2022**

|                     |                        |                         |                               |                     |
|---------------------|------------------------|-------------------------|-------------------------------|---------------------|
| Prepared by:        | Reviewed by:           | Head of the Department: | Vice Dean for Quality affairs | Dean of College:    |
| Dr. Ali<br>Alyahawi | Dr. Hassan Al Mahbashi | Dr. -----               | Dr. Abdulelah Thabet          | Dr. Ali<br>Alyahawi |

| I. Course Identification and General Information: |                                                        |                                                                                           |         |    |                 |
|---------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|----|-----------------|
| 1                                                 | Course Title:                                          | Hospital Training: Psychiatric                                                            |         |    |                 |
| 2                                                 | Course Code & Number:                                  | 02.05.261                                                                                 |         |    |                 |
| 3                                                 | Credit hours:                                          | C.H                                                                                       |         |    |                 |
|                                                   |                                                        | Th.                                                                                       | Seminar | Pr | Tr.             |
|                                                   |                                                        | -                                                                                         | -       | -  | 72 contact hrs. |
| 4                                                 | Study level/ semester at which this course is offered: | Sixth Year- Second Semester                                                               |         |    |                 |
| 5                                                 | Pre –requisite (if any):                               | Students must have successfully completed their basic curriculum of 5 <sup>th</sup> Year. |         |    |                 |
| 6                                                 | Co –requisite (if any):                                | None                                                                                      |         |    |                 |
| 7                                                 | Program (s) in which the course is offered:            | Doctor of Pharmacy (Pharm D)                                                              |         |    |                 |
| 8                                                 | Language of teaching the course:                       | English                                                                                   |         |    |                 |
| 9                                                 | Study System                                           | Semester based System                                                                     |         |    |                 |
| 10                                                | Mode of delivery:                                      | Regular-Full time                                                                         |         |    |                 |
| 11                                                | Location of teaching the course:                       | Faculty of Clinical Pharmacy                                                              |         |    |                 |
| 12                                                | Prepared By:                                           | Dr. Ali Alyahawi                                                                          |         |    |                 |
| 13                                                | Date of Approval                                       | 2022                                                                                      |         |    |                 |

| II. Course Description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The hospitals training course aims to provide the pharm D students with the essential aspects of pharmaceutical care practice in order to integrate the knowledge and skills to identify, prevent and resolve different treatment related problems (TRPs) relevant to psychiatric diseases. Throughout the rotation, student will develop skills in the provision of pharmaceutical care including obtaining medication histories, assessing the appropriateness of medication regimens, counseling patients, monitoring therapies, and providing appropriate drug information to both patients and physicians. |

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| I. Course Intended learning outcomes (CILOs):                                                                    |                                                                                                                                                                                                                                                                              | Referenced PILOs |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>A. Knowledge and Understanding:</b> Upon successful completion of the course, students will be able to:       |                                                                                                                                                                                                                                                                              |                  |
| a.1                                                                                                              | Understand the role and responsibilities of a clinical pharmacist in identification, preventing, and resolving different treatment related problems (TRPs) of psychiatric diseases (Alzheimer, schizophrenia, bipolar disorder, substance-related disorders and depression). | A1, A3, A4, A5   |
| a.2                                                                                                              | Define the most common substances of abuse in Yemen, including benzodiazepines and the opiates and recommend the appropriate treatment                                                                                                                                       | A1, A5           |
| <b>B. Intellectual Skills:</b> Upon successful completion of the course, students will be able to:               |                                                                                                                                                                                                                                                                              |                  |
| b.1                                                                                                              | Develop rational pharmacotherapy regimens related to psychiatric diseases.                                                                                                                                                                                                   | B2, B3, B4, B5   |
| b.2                                                                                                              | Design monitoring plan and therapeutic endpoints for efficacious drug use in psychiatric diseases.                                                                                                                                                                           | B4, B5           |
| <b>C. Professional and Practical Skills:</b> Upon successful completion of the course, students will be able to: |                                                                                                                                                                                                                                                                              |                  |
| c.1                                                                                                              | Apply proper recommendations and monitoring parameters according to professional medical references for TRPs in psychiatric diseases.                                                                                                                                        | C3, C4, C5       |
| <b>D. Transferable Skills:</b> Upon successful completion of the course, students will be able to:               |                                                                                                                                                                                                                                                                              |                  |
| d.1                                                                                                              | Effectively communicate with all healthcare providers and patients.                                                                                                                                                                                                          | D1               |
| d.2                                                                                                              | Display independent self-learning.                                                                                                                                                                                                                                           | D2, D3           |

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| <b>(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:</b>                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course Intended Learning Outcomes                                                                                                                                                                                                                                                       | Teaching strategies                                                                                                                                                                                                                                                                                                                                  | Assessment Strategies                                                                                                                                                                                                                                                         |
| <b>a1-</b> Understand the role and responsibilities of a clinical pharmacist in identification, preventing, and resolving different treatment related problems (TRPs) of psychiatric diseases (Alzheimer, schizophrenia, bipolar disorder, substance-related disorders and depression). | <ul style="list-style-type: none"> <li>- Clinical cases studies</li> <li>- Small practical session and discussion</li> <li>- Seminars</li> <li>- Use of advanced database search</li> <li>- Collecting, interpreting, and integrating available information in disease state</li> <li>- Self-learning</li> </ul>                                     | <ul style="list-style-type: none"> <li>- Oral case discussions during clinical rounds</li> <li>- Formal case presentation</li> <li>- Presentation for one of the course content topics.</li> <li>- Exam</li> </ul>                                                            |
| <b>a2-</b> Define the most common substances of abuse in Yemen, including benzodiazepines and the opiates and recommend the appropriate treatment.                                                                                                                                      | <ul style="list-style-type: none"> <li>- Clinical cases studies</li> <li>- Small practical session and discussion</li> <li>- Seminars</li> <li>- Pharmacy practice manual</li> <li>- Use of advanced database search</li> <li>- Collecting, interpreting, and integrating available information in disease state</li> <li>- Self-learning</li> </ul> | <ul style="list-style-type: none"> <li>- Assignments</li> <li>- Oral case discussions during clinical rounds</li> <li>- Pharmacy practice manual</li> <li>- Formal case presentation</li> <li>- Presentation for one of the course content topics.</li> <li>- Exam</li> </ul> |

| <b>(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:</b> |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course Intended Learning Outcomes                                                                                               | Teaching strategies                                                                                                                                                                                                                                                                            | Assessment Strategies                                                                                                                                                                                                                                         |
| <b>b1-</b> Develop rational pharmacotherapy regimens related to psychiatric diseases.                                           | <ul style="list-style-type: none"> <li>- Clinical cases studies</li> <li>- Small practical session and discussion</li> <li>- Seminars</li> <li>- Pharmacy practice manual</li> <li>- Use of advanced database search</li> <li>- Collecting, interpreting, and integrating available</li> </ul> | <ul style="list-style-type: none"> <li>- Assignments</li> <li>- Oral case discussions during clinical rounds</li> <li>- Pharmacy practice manual</li> <li>- Formal case presentation</li> <li>- Presentation for one of the course content topics.</li> </ul> |

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|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                        | information in disease state<br>- Self-learning                                                                                                                                                                                                                | - Exam                                                                                                                                                                                        |
| b2- Design monitoring plan and therapeutic endpoints for efficacious drug use in psychiatric diseases. | - Clinical cases studies<br>- Small practical session and discussion<br>- Seminars<br>- Pharmacy practice manual<br>- Use of advanced database search<br>- Collecting, interpreting, and integrating available information in disease state<br>- Self-learning | - Assignments<br>- Oral case discussions during clinical rounds<br>- Pharmacy practice manual<br>- Formal case presentation<br>- Presentation for one of the course content topics.<br>- Exam |

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

| Course Intended Learning Outcomes                                                                                                         | Teaching strategies                                                                                                                                                                                                                                            | Assessment Strategies                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C1- Apply proper recommendations and monitoring parameters according to professional medical references for TRPs in psychiatric diseases. | - Clinical cases studies<br>- Small practical session and discussion<br>- Seminars<br>- Pharmacy practice manual<br>- Use of advanced database search<br>- Collecting, interpreting, and integrating available information in disease state<br>- Self-learning | - Assignments<br>- Oral case discussions during clinical rounds<br>- Pharmacy practice manual<br>- Formal case presentation<br>- Presentation for one of the course content topics.<br>- Exam |

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

| Course Intended Learning Outcomes                                      | Teaching strategies                                                  | Assessment Strategies                                                        |
|------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|
| d1- Effectively communicate with all healthcare providers and patients | - Clinical cases studies<br>- Small practical session and discussion | - Oral case discussions during clinical rounds<br>- Formal case presentation |

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|                                        |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                           |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | - Seminars                                                                                                                                                                                                                                                                                                                                           | - Presentation for one of the course content topics.                                                                                                                                                                                      |
| d2- Display independent self-learning. | <ul style="list-style-type: none"> <li>- Clinical cases studies</li> <li>- Small practical session and discussion</li> <li>- Seminars</li> <li>- Pharmacy practice manual</li> <li>- Use of advanced database search</li> <li>- Collecting, interpreting, and integrating available information in disease state</li> <li>- Self-learning</li> </ul> | <ul style="list-style-type: none"> <li>- Assignments</li> <li>- Oral case discussions during clinical rounds</li> <li>- Formal case presentation</li> <li>- Presentation for one of the course content topics.</li> <li>- Exam</li> </ul> |

## II. Course Content:

### A – Theoretical Aspect:

| Order                                   | Units/Topics List | Learning Outcomes | Sub Topics List | Number of Weeks | contact hours |
|-----------------------------------------|-------------------|-------------------|-----------------|-----------------|---------------|
| 1                                       |                   |                   |                 |                 |               |
| 2                                       |                   |                   |                 |                 |               |
| 3                                       |                   |                   |                 |                 |               |
| 4                                       |                   |                   |                 |                 |               |
| 5                                       |                   |                   |                 |                 |               |
| 6                                       |                   |                   |                 |                 |               |
| 7                                       |                   |                   |                 |                 |               |
| 8                                       |                   |                   |                 |                 |               |
| 9                                       |                   |                   |                 |                 |               |
| 10                                      |                   |                   |                 |                 |               |
| Number of Weeks /and Units Per Semester |                   |                   |                 |                 |               |

|                  |                        |                         |                               |                  |
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| B - Practical Aspect: (if any)          |                                                                                             |                 |                 |                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------------------|
| Order                                   | Tasks/ Experiments                                                                          | Number of Weeks | contact hours   | Learning Outcomes           |
| 1                                       | - Schizophrenia                                                                             | Rotation Period | Rotation Period | a 1, a2, b1, b2, c1, d1, d2 |
| 2                                       | - Bipolar disorders                                                                         | Rotation Period | Rotation Period | a 1, a2, b1, b2, c1, d1, d2 |
| 3                                       | - Substance-Related Disorders :<br>• CNS Depressants<br>• CNS Stimulants<br>• Hallucinogens | Rotation Period | Rotation Period | a 1, a2, b1, b2, c1, d1, d2 |
| 4                                       | - Alzheimer's Disease                                                                       | Rotation Period | Rotation Period | a 1, a2, b1, b2, c1, d1, d2 |
| 5                                       | Final Exam                                                                                  | Week 2          |                 | a 1, a2, b1, b2, c1, d2     |
| Number of Weeks /and Units Per Semester |                                                                                             | 2 weeks         | 72 contact hrs. |                             |

| I. Teaching strategies of the course:                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Clinical cases studies</li> <li>- Small practical session and discussion</li> <li>- Seminars</li> <li>- Manuals</li> <li>- Use of advanced database search</li> <li>- Collecting, interpreting, and integrating available information in disease state</li> <li>- Self-learning</li> </ul> |

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### III. Assignments:

| No           | Assignments                                                                               | Aligned CILOs(symbols)      | Week Due | Mark |
|--------------|-------------------------------------------------------------------------------------------|-----------------------------|----------|------|
| 1            | <b>Assignment 1:</b> New Recommendations according American Psychiatric Association (APA) | a 1, a2, b1, b2, c1, d1, d2 | Week 1   | 10   |
| 2            | <b>Assignment 2:</b> Describe major counseling points for Major Depressive Disorders.     | a 1, a2, b1, b2, c1, d1, d2 | Week 2   | 10   |
| <b>Total</b> |                                                                                           |                             |          | 20   |

### 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            | Assignments                         | Course Training Period | 20   | 20 %                           | a 1, a2, b1, b2, c1, d1, d2      |
| 2            | Adherence to Professional Attitudes | Course Training Period | 10   | 10 %                           | d1, d2                           |
| 3            | Skills Acquired during Training     | Course Training Period | 20   | 20 %                           | b1, b2, c1, d1, d2               |
| 4            | Formal Case Presentation            | Last week of Rotation  | 10   | 10 %                           | a 1, a2, b1, b2, c1, d1, d2      |
| 5            | General Written Examination         | Last week of Rotation  | 40   | 40 %                           | a 1, a2, b1, b2, c1, d1          |
| <b>Total</b> |                                     |                        | 100  | 100%                           |                                  |

### I. Learning Resources:

- Written in the following order: ( Author - Year of publication – Title – Edition – Place of publication – Publisher).

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

- Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.
- Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.

#### 2- Essential References.

- DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.
- Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.

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|                                                                                                                                                                                                                         |
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| 3. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.                                                                                                                                            |
| <b>3- Electronic Materials and Web Sites etc.</b>                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- UpToDate</li> <li>- <a href="http://www.globalrph.com/">http://www.globalrph.com/</a></li> <li>- Updated Clinical Practice Guidelines for selected course disorders</li> </ul> |

| <b>I. Course Policies: (Based on the Uniform Students' Bylaw (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.                                     |

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## Faculty of Clinical Pharmacy

### Program of Doctor of Pharmacy (Pharm D)

#### Course Specification of **Hospital Training: Psychiatric**

Course No. : (02.05.261)

**2021/2022**

|                  |                        |                         |                               |                  |
|------------------|------------------------|-------------------------|-------------------------------|------------------|
| Prepared by:     | Reviewed by:           | Head of the Department: | Vice Dean for Quality affairs | Dean of College: |
| Dr. Ali Alyahawi | Dr. Hassan Al Mahbashi | Dr. -----               | Dr. Abdulelah Thabet          | Dr. Ali Alyahawi |

## II. - Information about Faculty Member Responsible for the Course:

| Name of Faculty Member   | Dr. Ali Alyahawi        | Office Hours |     |     |     |     |     |
|--------------------------|-------------------------|--------------|-----|-----|-----|-----|-----|
| Location & Telephone No. | 775957401               | SAT          | SUN | MON | TUE | WED | THU |
| E-mail                   | alyahawipharm@yahoo.com |              |     |     |     |     |     |

## III. Course Identification and General Information:

|    |                                                        |                                                                               |         |    |                 |       |
|----|--------------------------------------------------------|-------------------------------------------------------------------------------|---------|----|-----------------|-------|
| 1  | Course Title:                                          | Hospital Training: Psychiatric                                                |         |    |                 |       |
| 2  | Course Code & Number:                                  | 02.05.261                                                                     |         |    |                 |       |
| 3  | Credit hours:                                          | C.H                                                                           |         |    |                 | TOTAL |
|    |                                                        | Th.                                                                           | Seminar | Pr | Tr.             |       |
|    |                                                        |                                                                               | --      |    | 72 Contact hrs. | 2 CH  |
| 4  | Study level/ semester at which this course is offered: | Sixth Year- Second Semester                                                   |         |    |                 |       |
| 5  | Pre –requisite (if any):                               | Students must have successfully completed their basic curriculum of 5th Year. |         |    |                 |       |
| 6  | Co –requisite (if any):                                | None                                                                          |         |    |                 |       |
| 7  | Program (s) in which the course is offered:            | Doctor of Pharmacy (Pharm. D.)                                                |         |    |                 |       |
| 8  | Language of teaching the course:                       | English                                                                       |         |    |                 |       |
| 9  | Study System                                           | Semester based System                                                         |         |    |                 |       |
| 10 | Mode of delivery:                                      | Full Time - Regular                                                           |         |    |                 |       |
| 11 | Location of teaching the course:                       | Faculty of Clinical Pharmacy                                                  |         |    |                 |       |

## IV. Course Description:

The hospitals training course aims to provide the pharm D students with the essential aspects of pharmaceutical care practice in order to integrate the knowledge and skills to identify, prevent and resolve different treatment related problems (TRPs) relevant to psychiatric diseases. Throughout the rotation, student will develop skills in the provision of pharmaceutical care including obtaining medication histories, assessing the appropriateness of medication regimens, counseling patients, monitoring therapies, and providing appropriate drug information to both patients and physicians.

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| <b>V. Course Intended learning outcomes (CILOs)</b>      |                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Upon completion of this Course, student will be able to: |                                                                                                                                                                                                                                                                          |
| a.1                                                      | Define the role and responsibilities of a clinical pharmacist in identification, preventing, and resolving different treatment related problems (TRPs) of psychiatric diseases (Alzheimer, schizophrenia, bipolar disorder, substance-related disorders and depression). |
| a.2                                                      | Discuss the most common substances of abuse in Yemen, including benzodiazepines and the opiates and recommend the appropriate treatment.                                                                                                                                 |
| b.1                                                      | Construct rational pharmacotherapy regimen related to psychiatric diseases.                                                                                                                                                                                              |
| b.2                                                      | Design monitoring plan and therapeutic endpoints for efficacious drug use in psychiatric diseases.                                                                                                                                                                       |
| c.1                                                      | Apply proper recommendations and monitoring parameters according to professional medical references for TRPs in psychiatric diseases.                                                                                                                                    |
| d.1                                                      | Effectively communicate with all healthcare providers and patients.                                                                                                                                                                                                      |
| d.2                                                      | Display independent self-learning.                                                                                                                                                                                                                                       |

| <b>VI. Course Content:</b>                     |                   |                 |           |               |
|------------------------------------------------|-------------------|-----------------|-----------|---------------|
| <b>A – Theoretical Aspect:</b>                 |                   |                 |           |               |
| Order                                          | Units/Topics List | Sub Topics List | Week Due  | Contact Hours |
| 1                                              |                   |                 |           |               |
| 2                                              |                   |                 |           |               |
| 3                                              |                   |                 |           |               |
| 4                                              |                   |                 |           |               |
| 5                                              |                   |                 |           |               |
| 6                                              |                   |                 |           |               |
| 7                                              |                   |                 |           |               |
| 8                                              |                   |                 |           |               |
| 9                                              |                   |                 |           |               |
| <b>Number of Weeks /and Units Per Semester</b> |                   |                 | <b>16</b> | <b>32</b>     |

|                  |                        |                         |                               |                  |
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| B - Practical Aspect: (if any)          |                                                                                             |                 |                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------|-----------------|-----------------|
| Order                                   | Tasks/ Experiments                                                                          | Week Due        | Contact Hours   |
| 1                                       | - Schizophrenia                                                                             | Rotation Period | Rotation Period |
| 2                                       | - Bipolar disorders                                                                         | Rotation Period | Rotation Period |
| 3                                       | - Substance-Related Disorders :<br>• CNS Depressants<br>• CNS Stimulants<br>• Hallucinogens | Rotation Period | Rotation Period |
| 4                                       | - Alzheimer's Disease                                                                       | Rotation Period | Rotation Period |
| 5                                       | Final Exam                                                                                  | Week 2          |                 |
| Number of Weeks /and Units Per Semester |                                                                                             | 2 weeks         | 72 contact hrs. |

| VII. Teaching strategies of the course:                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Clinical cases studies</li> <li>- Small practical session and discussion</li> <li>- Seminars</li> <li>- Manuals</li> <li>- Use of advanced database search</li> <li>- Collecting, interpreting, and integrating available information in disease state</li> <li>- Self-learning</li> </ul> |

| VIII. Assignments: |                                                                                    |          |      |
|--------------------|------------------------------------------------------------------------------------|----------|------|
| No                 | Assignments                                                                        | Week Due | Mark |
| 1                  | Assignment 1: New Recommendations according American Psychiatric Association (APA) | Week 1   | 10   |
| 2                  | Assignment 2: Describe major counseling points for Major Depressive Disorders.     | Week 2   | 10   |
| Total              |                                                                                    |          | 20   |

|                  |                        |                         |                               |                  |
|------------------|------------------------|-------------------------|-------------------------------|------------------|
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| 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                                                                    | Assignments                         | Course Training Period | 20   | 20 %                           | a 1, a2, b1, b2, c1, d1, d2      |
| 2                                                                    | Adherence to Professional Attitudes | Course Training Period | 10   | 10 %                           | d1, d2                           |
| 3                                                                    | Skills Acquired during Training     | Course Training Period | 20   | 20 %                           | b1, b2, c1, d1, d2               |
| 4                                                                    | Formal Case Presentation            | Last week of Rotation  | 10   | 10 %                           | a 1, a2, b1, b2, c1, d1, d2      |
| 5                                                                    | General Written Examination         | Last week of Rotation  | 40   | 40 %                           | a 1,a2, b1, b2, c1, d1           |
| Total                                                                |                                     |                        | 100  | 100%                           |                                  |

| IX. Learning Resources:                                                                                                                                                 |                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Written in the following order: ( Author - Year of publication – Title – Edition – Place of publication – Publisher).</li> </ul> |                                                                                                                                                                                                                                                                                            |
| <b>1- Required Textbook(s) ( maximum two ).</b>                                                                                                                         |                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                         | 3. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.<br>4. Katzung, 2018, Basic & Clinical Pharmacology. 14th edition.                                                                                                                                      |
| <b>2- Essential References.</b>                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                         | 4. DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.<br>5. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.<br>6. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition. |
| <b>3- Electronic Materials and Web Sites etc.</b>                                                                                                                       |                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                         | - UpToDate<br>- <a href="http://www.globalrph.com/">http://www.globalrph.com/</a><br>- Updated Clinical Practice Guidelines for selected course disorders                                                                                                                                  |

| X. Course Policies: (Based on the Uniform Students' Bylaw (2007)) |                                                                                                                                                                                           |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                 | <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. |

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| Prepared by:     | Reviewed by:           | Head of the Department: | Vice Dean for Quality affairs | Dean of College: |
| Dr. Ali Alyahawi | Dr. Hassan Al Mahbashi | Dr. -----               | Dr. Abdulelah Thabet          | Dr. Ali Alyahawi |

|   |                                                                                                                                                                                                                                                                                |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <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.                                                                                                                                                  |
| 3 | <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.                                                                                  |
| 4 | <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.                                                                                         |
| 5 | <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.                                        |
| 6 | <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. |
| 7 | <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.                                     |

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