Course Specification

I. Course Identification and General Information:						
1	**Course Title:**	**Clinical Pharmacology**				
2	**Course Code &Number:**	**MNSG06**				
3	**Credit hours: 2**	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		2	-	-	-	2
4	**Study level/ semester at which this course is offered:**	First year/ First semester				
5	**Pre –requisite:**					
6	**Co –requisite :**	-				
7	**Program (s) in which the course is offered:**	Critical care nursing				
8	**Language of teaching the course:**	English				
9	**Location of teaching the course:**	Faculty of Nursing				
10	**Prepared By:**	Dr.				
11	**Date of Approval**	2022				

II. Course Description:

The course focuses therapeutic drugs management of the critically ill patients. It provides knowledge of the pharmacology of each drug in frequent use in critical care unit. It clarifies many of forms of drug therapy currently used. Consideration is given to pharmacokinetic monitoring.

III. Intended learning outcomes of the course (ILCOs) and their alignment to Program Intended learning outcomes (PILOs)	
ILCOs	**PILOs**
1. Describes the indications, contraindication, and dosage, route of administration, adverse effect and interaction of drugs use for critically ill patients.	A4
2. Establish a plan of observation of patient reaction to medication and drug administration based on patients' needs.	B3
3. Identify nursing measures to support drug action.	A5
4. Share observation of drug effect with health team members evaluating the plan and maintain accurate records regarding drugs.	D3

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a4. Describes the indications, contraindication, and dosage, route of administration, adverse effect and interaction of drugs use for critically ill patients.	Lecture Discussion	Essay type Short answer Objective type
a5. Identify nursing measures to support drug action.	Lecture Discussion	Essay type Short answer Objective type

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b3. Establish a plan of observation of patient reaction to medication and drug administration based on patients' needs.	Lecture Discussion Exercise Demonstration	Essay type Short answer Objective type

(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
Not applicable	-	-

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

d3. Share observation of drug effect with health team members evaluating the plan and maintain accurate records regarding drugs.	Lecture Discussion	Short answer Objective type

III. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	No. of Weeks	Contact hours	Learning Outcomes
1	Analgesics	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
2	Anticoagulants	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
3	Antihypertensive / hypertensive	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction.	1	2	a4,a5,b3, d3

		• Plan of observation of patient reaction to medication and drug administration based on patients' needs.			
4	Anti-arrhythmic	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
5	Beta Blockers	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
6	Bronco dilators	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3

7	Midterm exam		1	2	a4,a5,b3, d3
8	Calcium Channel Blockers	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
9	Diuretics	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
10	Glucocorticoids	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
11	Inotropic Agents/ Gasopressors	• Mechanism of action, Clinical uses, contraindication, and			

		dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
12	Sedatives	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
13	Muscle Relaxants / Tranquilizers	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
14	Vasodilators	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction.	1	2	a4,a5,b3, d3

		• Plan of observation of patient reaction to medication and drug administration based on patients' needs.			
15	Cardiac Glycosides	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
16	Manitol	• Mechanism of action, Clinical uses, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs.	1	2	a4,a5,b3, d3
17	Final exam		1	2	a4,a5,b3, d3
Number of Weeks /and Units Per Semester			**16**	**32**	

B - Practical Aspect:				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Not applicable	-	-	-
Number of Weeks /and Units Per Semester		-	-	-

IV. Teaching strategies of the course:

1. Lecture – Discussion

V. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Write about Cerebral Activators; • Mechanism of action, Indications, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs. • Nursing measures to support drug action.	a4,a5,b3,d3	6-10	10

VI.Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Student assignment	5th and 12th week	10	10 %	a4,a5,b3,d3
2	Presentation	4st and 14th week	20	20 %	a4,a5,b3,d3
3	Mid-term exam	7th or 8th week	20	20%	a4,a5,b3,d3
4	Final exam	16th-17th week	50	50 %	a4,a5,b3,d3
	Total Theory Weight		**100**	**100%**	

VII. Learning Resources:	
1- Required Textbook(s)	
	1. Vendeta Band , Ali Ashgar Baghaie venketa. Pharmacological principles, critical care Medicine .W.B. Saunders company Philadelphia 2011.
2- Essential References.	
	1. Harvard M. A. Nursing Guide to drugs 3rd ed. Churchill living stone Melbourne.2009
3- Electronic Materials and Web Sites *etc*.	
	1. http://www.yahoo.com 2. http://www.google.com

VIII. Course Policies:	
1.	**Class Attendance:** At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2.	**Tardy:** any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3.	**Exam Attendance/Punctuality:** Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4.	**Assignments &Projects:** Assignments and projects will be assessed individually unless the teacher request for group work
5.	**Cheating**: Cheating by any means will cause the student failure and he/she must re-study the course
6.	**Plagiarism**: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

Course Plan (Syllabus)

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

II. Course Identification and General Information:						
1.	**Course Title:**	**Clinical Pharmacology**				
2.	**Course Number & Code:**	**MNSG06**				
3.	**Credit hours: 2**	**C.H**				**Total**
		Th.	**Seminar**	**Pr.**	**F. Tr.**	
		2	-	-	-	2
4.	**Study level/year at which this course is offered:**	First year/ First semester				
5.	**Pre –requisite:**	-				
6.	**Co –requisite :**	-				
7.	**Program (s) in which the course is offered**	Critical care nursing				
8.	**Language of teaching the course:**	English				
9.	**System of Study:**	Semester system				
10	**Mode of delivery:**	Full time				
11	**Location of teaching the course:**	Faculty of Nursing				

III. Course Description:

The course focuses therapeutic drugs management of the critically ill patients. It provides knowledge of the pharmacology of each drug in frequent use in critical care unit. It clarifies many of forms of drug therapy currently used. Consideration is given to pharmacokinetic monitoring.

IV. Intended learning outcomes (ILOs) of the course:

1. Describes the indications, contraindication, and dosage, route of administration, adverse effect and interaction of drugs use for critically ill patients.
2. Establish a plan of observation of patient reaction to medication and drug administration based on patients' needs.
3. Identify nursing measures to support drug action.
4. Share observation of drug effect with health team members evaluating the plan and maintain accurate records regarding drugs

V. Course Content:

- Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Analgesics	1	2
2	Anticoagulants	2	2
3	Antihypertensive / hypertensive	3	2
4	Ant arrhythmic	4	2
5	Beta Blockers	5	2
6	Bronco dilators	6	2
7	Midterm exam	7	2
8	Calcium Channel Blockers	8	2
9	Diuretics	9	2
10	Glucocorticoids	10	2
11	Inotropic Agents/Gasopressors	11	2
12	Sedatives	12	2
13	Muscle Relaxants / Tranquilizers	13	2
14	Vasodilators	14	2
15	Cardiac Glycosides	15	2
16	Manitol	16	2
17	Final exam	17	2
Number of Weeks /and Units Per Semester		**17**	**32**

B– Practical Aspect:			
Order	**Topics List**	**Week Due**	**Contact Hours**
1	Not applicable	-	-
Number of Weeks /and Units Per Semester		**-**	**-**

VI. Teaching strategies of the course:

1. Lecture - Discussion

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Write about Cerebral Activators; • Mechanism of action, Indications, contraindication, and dosage, route of administration, adverse effect and interaction. • Plan of observation of patient reaction to medication and drug administration based on patients' needs. • Nursing measures to support drug action.	a4,a5,b3,d3	6-10	10

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