



Course Specification of Organic chemistry

I. Course Identification and General Information:						
1	Course Title:	Organic chemistry				
2	Course Number & Code:	FR114				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		2	1	-	-	3
4	Study level/ semester at which this course is offered:	First Year - Second Semester				
5	Pre –requisite (if any):	FR111				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Bachelor of Veterinary Medicine				
8	Language of teaching the course:	English language				
9	Location of teaching the course:	Faculty of Veterinary Medicine Building				
10	Prepared by:	Dr. Basheer Ahmed Mufreh				
11	Date of approval:					

II. Course description:

Organic chemistry is a Faculty required course, This course provides a student by basic and advanced skills for understand Organic chemistry at studying environment, and at home. It presents the knowledge of basic Organic chemistry concepts. The course provides the knowledge needed to operate and utilize the operating system and office software package, and to use the. Organic chemistry and further develops students' communication skills in design, describe, Draw and using a moderately advanced materials. It also provides the students with a wide range of basic concept and develops their use Experience of medical Organic chemistry, and processes to investigate the effect of varying resistance on the Science of Organic chemistry in the environment, solve simple problems on the cost of using Science of Organic chemistry appliances, using machines and Networks.

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

(A) Knowledge and Understanding:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Knowledge and Understanding.**

Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students will be able to:		After completing this course, students will be able to:	
A2-	Clarifies basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care that is related to animal ethical codes.	a1-	Describe the Organic Chemistry
A3-	Identifies various causes of animal diseases, animal epidemics and how they can be diagnosed; including common and life-threatening diseases of animals, poultry and fish.	a2-	Distinguish the basic Organic Chemistry

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching strategies/methods to be used	Methods of assessment
completing this course, students will be able to:		Lectures Investigation Explanation Open question Demonstration Presentation Observation. Cooperative learning	Home Work Class Work Class Active Case Studies Research Papers Group Projects Watch Video Collect sample
a1-	Describe the Organic Chemistry		
a2-	Distinguish the basic Organic Chemistry		

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		workshops Pair work Group work	Mid-semester exam Final exam Cooperative learning
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(B) Intellectual Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Intellectual skills**

Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills		Course Intended Learning Outcomes (CILOs) of Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
B1-	Competently practices analytical and critical thinking skills in studying and assessing health problems and reading the results of animal medical examinations and in related sciences.	b1-	Differentiate among different Organic Chemistry.
B4-	Determine appropriate and effective treatment evaluates all medications used for each diseased condition.	b2-	Discriminate the importance of using Organic Chemistry to medical.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures Investigation Feedback Open question Demonstration Observation. Cooperative learning workshops Pair work	Home Work Class Work Class Active Case Studies Research Papers Group Projects Watch Video Mid-semester exam Final exam
b1-	Differentiate among different Organic Chemistry.		
b2-	Discriminate the importance of using Organic Chemistry to medical.		

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		Group work	Cooperative learning
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(C) Professional and Practical Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Professional and Practical Skills**

Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills		Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1-	Employ functions and charts in Organic Chemistry.
C2-	Practicing practical, diagnostic, clinical and research skills, including the collection of samples in various fields of veterinary medicine and related sciences, in a safe and effective manner, taking into account the ethics of the profession.	c2-	Produce effective Organic Chemistry presentations.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures Investigation Explanation Feedback Open question Demonstration Presentation	Home Work Class Work Class Active Case Studies Research Papers Group Projects
c1-	Employ functions and charts in Organic Chemistry.		
c2-	Produce effective Organic Chemistry presentations.		

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(D) General / Transferable Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General and Transferable skills**

Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d1-	Write reports required for a Organic Chemistry
D2-	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	d2-	Use Internet for the purpose of preparing different Organic Chemistry

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures Investigation Explanation Feedback Open question Demonstration Presentation Observation. Cooperative learning	Home Work Class Work Class Active Case Studies Research Papers Group Projects Watch Video Collect sample Mid-semester exam
d1-	Write reports required for a Organic Chemistry		
d2	Use Internet for the purpose of preparing different Organic Chemistry		

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IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Structure	a1, a2,b1,b2,c1,c2	structure Nomenclature Lewis structure Orbital hybridization	1	2
2	Configuration	a1, a2,b1,b2,c1,c2	Configurational Configurational analyses conformational	1	2
3	Functional groups	a1, a2,b1,b2,c1,c2	Preparation Reactions Interconversion of alkanes	1	2
4	Reaction Mechanism	a1, a2,b1,b2,c1,c2	Nucleophilic Nucleophilic aromatic substitutions	2	4
5	Reactive Intermediates	a1, a2,b1,b2,c1,c2	Nature of carbocation's Free radicals benzynes	2	4
6	organometallics	a1, a2,b1,b2,c1,c2	reactions main group metal reagents	2	4
7	Special topics	a1, a2,b1,b2,c1,c2	Resonance Carbon acidity orbital	2	4
8	Economy organic	a1, a2,b1,b2,c1,c2	Economy organic Organic in plants Organic in animals	2	4

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9	Medical organic	a1, a2,b1,b2,c1,c2	Medical organic Alkanes Alkenes alkynes	1	2
Number of Weeks /and Units Per Semester				14	28

b- Training Aspect:				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Structure	a1, a2,b1,b2,c1,c2	2	4
2	Configuration	a1, a2,b1,b2,c1,c2	2	4
3	Functional groups	a1, a2,b1,b2,c1,c2	3	6
4	Reaction Mechanism	a1, a2,b1,b2,c1,c2	2	4
5	Reactive Intermediates	a1, a2,b1,b2,c1,c2	2	4
6	Organometallics	a1, a2,b1,b2,c1,c2	3	6
Number of Weeks /and Units Per Semester			14	28

V. Teaching strategies of the course:
<ul style="list-style-type: none"> ▪ Brainstorming ▪ Teacher explanation ▪ Directed reading ▪ Silent Reading ▪ Self-learning ▪ Problem solving

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- Cooperative learning
- Group work
- Pair work
- Listening to short dialogues

3-Assessment Methods:

Home Active
 Home Work
 Class Work
 Research Papers
 Group Projects
 Watch Video
 Note sample
 Abstract

I. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation, quizzes and assignments	2-14	10	10%	a1, a2, b1, b2, c1, c2,d1
2	Mid-Term Exam	8	10	10%	a1, a2, b1, b2, c1, c2
3	Mid-Term Practical Exam	8	10	10%	a1, a2, b1, b2, c1, c2
4	Final Practical Exam	15	10	10%	a1, a2, b1, b2, c1, c2
5	Oral Exam	16	5	5%	a1, a2, b1, b2, c1, c2,d1

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6	Final Exam	16	55	55%	a1, a2, b1, b2, c1, c2
Total		100	100%		

II. Students' Support:

Office Hours/week	Other Procedures (if any)
Every sun day	Non

III. Learning Resource (MLA style or APA style)s:

1- Required Textbook(s) (maximum two)

- Morris Mano, " Chemistry 3 ", by Prentice – Hall 2011 ISBN. 1995

2- Recommended Readings and Reference Materials

- R. A. Serway and J. S. Faughn, General Chemistry , 2006, Holt, USA.
- John F.Warrly, ” General Chemistry ”, Pearson Education ,Russia

3- Essential References

Richards, Jack C., Hull, Jonathan and Proctor, Susan. (2008).Chemistry-o. Third edition, New York: Cambridge University Press

<http://www.ph.utexas.edu/~ General Chemistry /resources/resources.html>

4- Electronic Materials and Web Sites etc.

<http://mastersinesl.com/2012/40-best-sites-for-esl-study-materials-textbooks-and-software/>

<http://learnenglishteens.britishcouncil.org/skills/listening-skills-practice>

http://www.everythingsl.net/inservices/elementary_sites_ells_71638.php

http://www.everythingsl.net/inservices/elementary_sites_ells_71638.php

<http://www.5minuteenglish.com/the-fun-of-learning-english.htm>

<http://www.funbrain.com/cgi-bin/gg.cgi?A1=m&A2=0&A3=0&AFUNCT=1&ALEVEL=0>

<http://classroom.jc-schools.net/basic/la-grammar.html>

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<p>http://classroom-aid.com/2012/08/28/25-online-games-for-english-language-learners/ https://www.vocabulary.co.il/ http://www.talkenglish.com/listening/listenintermediate.aspx https://learnenglish.britishcouncil.org/en/english-grammar/clause-phrase-and-sentence/sentence-structure http://classroom.jc-schools.net/basic/la-grammar.html http://www.factmonster.com/homework/writingskills1.html</p>
<p>5- Other Learning Material:</p>
<p>-</p>

I. Course Policies: (including plagiarism, academic honesty, attendance etc)	
1	<p>Class Attendance:</p> <ul style="list-style-type: none"> - Attendance in all lectures and practical classes are required, except in very emergency circumstances, such as serious illness or death in the family with providing an acceptable documentation approved by the university and forwarded by the chairman of the department. Otherwise the absence shall be considered unexcused. - In accordance with the university rules, if the percentage of student's absence exceeds 25 % of the total lectures or practical classes, the student involved shall be disqualified in the final written and practical examination of the course and shall be deemed to have failed in the course.
2	<p>Tardy:</p> <p>Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable cause, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.</p>
3	<p>Exam Attendance/Punctuality:</p> <ul style="list-style-type: none"> ▪ It is incumbent on student to report at the examination hall for checking in and rolls calling at least 15 minutes before the commencement of examination. ▪ A student is not allowed to submit answer booklet and leave the examination hall only on or after the passage of the half examination duration. ▪ A student who comes late shall not be admitted to the examination hall, only within the

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	<p>first 30 minutes of the examination. After this time, the student will be considered to be missed in the examination and shall be deemed to have failed in the course.</p> <ul style="list-style-type: none"> When a student misses the final examination due to a legitimate medical problems or death in the family, an acceptable documentation approved by the university medical unit for the excused absence must be provided no later than three weeks and consequently the student shall be disqualified in the examination but with the excused absence.
<p>4</p>	<p>Assignments & Projects:</p> <ul style="list-style-type: none"> Assignments and practical reports must be submitted for assessment on or before the due date. The submission date extension will not be granted only by the consent of the faculty member concerned. In the case of late submission, the student must provide a reasonable explanation to the faculty member. Otherwise, 1% of the obtained marks will be subtracted for each late day, including weekends and holidays.
<p>5</p>	<p>Cheating:</p> <ul style="list-style-type: none"> If a student is found cheating in examination (midterm or final or quizzes) (copying from unauthorized materials and another students' work or allowing other students to copy from his/her own work), the student involved shall be disqualified in the examination and shall be deemed to have failed in the course and also suspended from examinations of two more courses. If a student is found engaging in any unauthorized communications (oral, sign, call, etc.), while the examination is in progress or in possessing of any authorized materials or electronic devices before the distribution of examination papers , the student involved shall be disqualified in the examination and shall be deemed to have failed the course.
<p>6</p>	<p>Plagiarism:</p> <ul style="list-style-type: none"> Plagiarism is the presentation of any material (text, data or figures) from any other source in preparation of assignments or practical reports without clear and adequate acknowledgement of the source. Plagiarism is also the use or copy of other students' work (with, or without payment) to prepare all or part of undertaken assignments or practical reports of work submitted for assessment.

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	<ul style="list-style-type: none">All types of plagiarism are unacceptable and are considered dishonest practices. If a student is found plagiarism, the student involved shall be subjected to the same penalties as in the case of cheating as already mentioned in the sub-section (5) of the course policies.
7	<p>Other policies:</p> <ul style="list-style-type: none">Students must switch off their mobile phones, laptops, electronic devices etc. before entering lecture room or lab. If a student is found using these devices while the lecture or practical work is in progress, the student involved shall be expelled out of the class and shall be considered to be absent.

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Course Plan of Organic chemistry

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

IV. Course Identification and General Information:						
1	Course Title:	Organic chemistry				
2	Course Number & Code:	FR114				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	1
		2	1	-	-	3
4	Study level/ semester at which this course is offered:	First Year - Second Semester				
5	Pre –requisite (if any):	FR111				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Bachelor of Veterinary Medicine				
8	Language of teaching the course:	English language				
9	Location of teaching the course:	Regular/ Semester				
10	Mode of delivery:	Lectures and Practical				
11	Location of teaching the course:	Faculty of Veterinary Medicine Building				

V. Course description:

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

After completing this course, students will be able to:

- a1- Describe the Organic Chemistry
- a2- Distinguish the basic Organic Chemistry
- b1- Differentiate among different Organic Chemistry.
- b2- Discriminate the importance of using Organic Chemistry to medical.
- c1- Employ functions and charts in Organic Chemistry.
- c2- Produce effective Organic Chemistry presentations.
- d1- Write reports required for a Organic Chemistry
- d2- Use Internet for the purpose of preparing different Organic Chemistry

I. Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Structure	1	2
2	Configuration	2	2
3	Functional groups	3	2
4	Reaction Mechanism	4,5	4
5	Reactive Intermediates	6,7	4

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6	Mid-Term Exam	8	2
7	organometallics	9,10	4
8	Special topics	11,12	4
9	Economy organic	13,14	4
10	Medical organic	15	2
11	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

b- Training Aspect:			
Order	Training Tasks	Week Due	Contact hours
1	structure	1,2	4
2	configuration	3,4	4
3	Functional groups	5,6,7	6
4	Mid-Term Exam	8	2
5	Reaction Mechanism	9,10	4
6	Reactive Intermediates	11,12	4
7	organometallics	13,14,15	6
8	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

VI. Teaching strategies of the course:

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- Brainstorming
- Teacher explanation
- Directed reading
- Silent Reading
- Self-learning
- Problem solving
- Cooperative learning
- Group work
- Pair work
- Listening to short dialogues

3-Assessment Methods:

Home Active

Home Work

Class Work

Research Papers

Group Projects

Watch Video

Note sample

Abstract

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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and assignments	2-14	10	10%
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	15	10	10%
5	Oral Exam	16	5	5%
6	Final Exam	16	55	55%
Total			100	100%

VII. Learning Resource (MLA style or APA style)S:

6- Required Textbook(s) (maximum two)

- Morris Mano, " Chemistry 3 ", by Prentice – Hall 2011 ISBN. 1995

7- Recommended Readings and Reference Materials

- R. A. Serway and J. S. Faughn, General Chemistry , 2006, Holt, USA.
- John F.Warrly, " General Chemistry ", Pearson Education ,Russia

8- Essential References

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9- Electronic Materials and Web Sites etc.

<http://mastersinesl.com/2012/40-best-sites-for-esl-study-materials-textbooks-and-software/>

<http://learnenglishteens.britishcouncil.org/skills/listening-skills-practice>

http://www.everythingsl.net/in-services/elementary_sites_ells_71638.php

http://www.everythingsl.net/in-services/elementary_sites_ells_71638.php

<http://www.5minuteenglish.com/the-fun-of-learning-english.htm>

<http://www.funbrain.com/cgi-bin/gg.cgi?A1=m&A2=0&A3=0&AFUNCT=1&ALEVEL=0>

<http://classroom.jc-schools.net/basic/la-grammar.html>

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<http://classroom-aid.com/2012/08/28/25-online-games-for-english-language-learners/>
<https://www.vocabulary.co.il/>
<http://www.talkenglish.com/listening/listenintermediate.aspx>
<https://learnenglish.britishcouncil.org/en/english-grammar/phrase-structure>
<http://classroom.jc-schools.net/basic/la-grammar.html>
<http://www.factmonster.com/homework/writingskills1.html>

10- Other Learning Material:

II. Course Policies: (including plagiarism, academic honesty, attendance etc)

1	<p>Class Attendance:</p> <ul style="list-style-type: none"> - Attendance in all lectures and practical classes are required, except in very emergency circumstances, such as serious illness or death in the family with providing an acceptable documentation approved by the university and forwarded by the chairman of the department. Otherwise the absence shall be considered unexcused. - In accordance with the university rules, if the percentage of student's absence exceeds 25 % of the total lectures or practical classes, the student involved shall be disqualified in the final written and practical examination of the course and shall be deemed to have failed in the course.
2	<p>Tardy:</p> <p>Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable cause, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.</p>
3	<p>Exam Attendance/Punctuality:</p> <ul style="list-style-type: none"> ▪ It is incumbent on student to report at the examination hall for checking in and rolls calling at least 15 minutes before the commencement of examination. ▪ A student is not allowed to submit answer booklet and leave the examination hall only on or after the passage of the half examination duration. ▪ A student who comes late shall not be admitted to the examination hall, only within the first 30 minutes of the examination. After this time, the student will be considered to be missed in the examination and shall be deemed to have failed in the course.

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	<ul style="list-style-type: none"> When a student misses the final examination due to a legitimate medical problems or death in the family, an acceptable documentation approved by the university medical unit for the excused absence must be provided no later than three weeks and consequently the student shall be disqualified in the examination but with the excused absence.
4	<p>Assignments & Projects:</p> <ul style="list-style-type: none"> Assignments and practical reports must be submitted for assessment on or before the due date. The submission date extension will not be granted only by the consent of the faculty member concerned. In the case of late submission, the student must provide a reasonable explanation to the faculty member. Otherwise, 1% of the obtained marks will be subtracted for each late day, including weekends and holidays.
5	<p>Cheating:</p> <ul style="list-style-type: none"> If a student is found cheating in examination (midterm or final or quizzes) (copying from unauthorized materials and another students' work or allowing other students to copy from his/her own work), the student involved shall be disqualified in the examination and shall be deemed to have failed in the course and also suspended from examinations of two more courses. If a student is found engaging in any unauthorized communications (oral, sign, call, etc.), while the examination is in progress or in possessing of any authorized materials or electronic devices before the distribution of examination papers , the student involved shall be disqualified in the examination and shall be deemed to have failed the course.
6	<p>Plagiarism:</p> <ul style="list-style-type: none"> Plagiarism is the presentation of any material (text, data or figures) from any other source in preparation of assignments or practical reports without clear and adequate acknowledgement of the source. Plagiarism is also the use or copy of other students' work (with, or without payment) to prepare all or part of undertaken assignments or practical reports of work submitted for assessment. All types of plagiarism are unacceptable and are considered dishonest practices. If a student is found plagiarism, the student involved shall be subjected to the same penalties

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	as in the case of cheating as already mentioned in the sub-section (5) of the course policies.
7	Other policies: <ul style="list-style-type: none">Students must switch off their mobile phones, laptops, electronic devices etc. before entering lecture room or lab. If a student is found using these devices while the lecture or practical work is in progress, the student involved shall be expelled out of the class and shall be considered to be absent.

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