

**Kingdom of Saudi Arabia**

**The National Commission for Academic Accreditation &  
Assessment**

**COURSE REPORT**

To be completed by course instructors at the end of each course and given to program coordinator.

If the course is taught in more than one location the course report should be prepared for each location by the course instructors responsible for the course in each location. A combined report should be prepared by the course coordinator and the separate location reports attached.

**Revised March 2007.**

## Course Report

*For guidance on the completion of this template, please refer to pages 21 to 23 of Handbook 2 Internal Quality Assurance Arrangements*

Institution <b>King Saud University</b>
College/ Department <b>Pharmacy/ Pharmaceutics</b>

### A Course Identification and General Information

1. Course title and code. <b>Industrial Pharmacy – PHT 461</b>
2. If course is taught in more than one section indicate the section to which this report applies
3. Year and semester to which this report applies. <b>5 - 10th semester</b>
4 Location (if not on main campus)

### B- Course Delivery

1 Coverage of Planned Program : Practical Program			
Topics	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned
Lab. 1 Introduction. - Units and dimensions.	5	5	

- Buffer calculations. Preparation of Atazoline Hcl Nasal Drops.			
Lab. 2 Units and dimensions. - Isotonicity adjustments. - Aminophylline injection. Discussion.	5	5	
Lab. 3 Heat flow. - Adrenaline injection. - Discussion.	5	5	
Lab 4. Problem on heat flow. - Preparation of Zn So <sub>4</sub> eye drops. - Preparation of Sulfacetamide sodium eye drops. - Discussion.	5	5	
Lab. 5&6 Tablet preparation by wet granulation method e.g. Piperazine adibat tablet and Amphetamine sulfate tablets. - Discussion.	5	5	
Lab 7. Tablet preparation by direct compression e.g. Aspirin tablets, Vitamin C effervescent tablets. - Discussion.	5	5	
Lab 8. Tablet film coating by using P.E.G. - Discussion	5	5	
Lab 9. Mixing of pharmaceutical powders.	5	5	
Lab 10. Crystallization: i. by evaporation.	5	5	

ii. by cooling. iii. Precipitation.			
Lab 11 & 12. Microencapsulation: i. Conservation. ii. Solvent evaporation.	5	5	
Lab. 13 Revision	5	5	
Lab. 14 Final practical exam	5	5	

### 1 Coverage of Planned Program : Theoretical Program

Topics	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned
Factory layout and operations	1	1	
Size reduction	2	2	
Sieving and grading	1	1	
Blending and mixing	2	2	
Filtration and filters	2	2	
Extraction	1	1	
Flow of fluids	2	2	
Heating and heaters	1	1	
Evaporation and evaporators	2	2	
Cooling and refrigeration	1	1	
Crystallization and crystallizers	2	2	
Drying and dryers	1	1	
Freeze-drying	1	1	

Distillation and stills	2	2	
Other operations applied in industrial pharmacy	1	1	
Some dosage forms in pharmaceutical manufacturing	2	2	
Pilot plant	2	2	
exams	2	2	
Total credit hours	28	28	

## 2. Consequences of Non Coverage of Topics

For any topics where significantly less time was spent than was intended in the course specification, or where the topic was not taught at all, comment on how significant you believe the lack of coverage is for the program objectives or for later courses in the program, and suggest possible compensating action if you believe it is needed.

Topics (if any) not Fully Covered	Significance of Lack of Coverage	Possible Compensating Action Elsewhere in the Program
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## 3. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification. (Refer to planned teaching strategies in Course Specification and description of Domains of Learning Outcomes in the National Qualifications Framework)

Domains	List Teaching Strategies set out in Course	Were these Effective?	Difficulties Experienced (if any) in Using the

	Specification	No	Yes	Strategy and Suggested Action to Deal with Those Difficulties .
<p>a. Knowledge - <b>Compounding of different prescriptions</b></p> <p>- <b>Labelling and instructions to the users.</b></p>	<p><b>1.Theoretical lectures and practical approaches.</b></p> <p><b>2. Tutorial</b></p> <p><b>3. Reports, homework and use of IT e.g. power point for presentation.</b></p>		<b>Yes</b>	
<p>b. Cognitive Skills</p> <p><b>1. Critical thinking.</b></p> <p><b>2. Alertness about compounding of prescriptions.</b></p> <p><b>4. Precision during directions given to users.</b></p>	<p><b>1. The student should be asked to compound different types of Preparations.</b></p> <p><b>2. Precautions concerning dispensing, instructions for uses of products.</b></p> <p><b>3. Interpretation of prescriptions should be done by students.</b></p> <p><b>4. Students would offer a summary of certain topics via power point, as well as reports.</b></p>			

<p>c. Interpersonal Skills and Responsibility</p> <p><b>1. Communication with instructors, tutors, staff, and users.</b></p> <p><b>2. Communication with different personalities and attitudes.</b></p> <p><b>3. Giving indications to users in a professional way.</b></p> <p><b>4. The student should be engaged in higher responsibilities.</b></p>	<p><b>1. Students will be trained on simulating situations.</b></p> <p><b>2. Video tapes will be used to show students the professional ways of communication with users and community.</b></p> <p><b>3. Oral exams will be made.</b></p> <p><b>4. Group discussion will be needed.</b></p> <p><b>5. Group projects will be carried out.</b></p>			
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<p>d. Numerical and Communication Skills</p> <p><b>1. Search utilizing internet to cope with course demand.</b></p> <p><b>2. Follow the update knowledge concerning the course demand.</b></p> <p><b>3. Presentation using power point.</b></p> <p><b>4. Self learning.</b></p>	<p><b>1. Training on different software and special programs related to the course e.g. labelling of the products.</b></p> <p><b>2. Students will be asked to represent a research project utilizing the I.T. showing the latest information about certain topics.</b></p>			
<p>4. Summarize actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.</p> <p><b>Group projects will be carried out, and the positive role of the student in group projects should be achieved. Group discussion will be needed. Students will be asked to represent a research project utilizing the I.T. showing the latest information about certain topics ,such as preparation of Aspirin Tablets and Evaluation.</b></p>				

### C. Results

1 Number of students commencing the field experience:	<input type="text"/>
2 Number of students completing the field experience:	<input type="text"/>



3 Result Summary:

Passed: 100%

Failed: None



Did not complete: None

4 Distribution of Grades (If percentage marks are given indicate numbers in each 5 percentile group)

	No		%	No	%	No
A		OR	95-100		70-47	
B			90-94		65-69	
C			85-89		60-64	
D			80-84		<60	
F			75-79			
Denied Entry			Denied Entry			
In Progress			In Progress			
Incomplete			Incomplete			
Pass			Pass			
Fail			Fail			
Withdrawn		Withdrawn				

5 Special factors (if any) affecting the results

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6. Variations from planned student assessment processes (if any) ( See items C 4 and 5 in the Course Specification.)

a. Variations (if any) from planned assessment schedule (C5 in Course Specification)	
Variation	Reason

b. Variations (if any) from planned assessment processes in Domains of Learning (C4 in Course Specification)	
Variation	Reason

7 Verification of Standards of Achievement (Eg. check marking of a sample of papers by others in the department. See G4 in Course Specification) (Where independent report is provided a copy should be attached.)

Method(s) of Verification	Conclusion

## D Resources and Facilities

<p>1. Difficulties in access to resources or facilities (if any)</p> <p><b>The students are unable to visit any factory.</b></p>	<p>2. Consequences of any difficulties experienced for student learning in the course.</p> <p>Lack of demonstration.</p>
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## E. Administrative Issues

<p>1 Organizational or administrative difficulties encountered (if any)</p>	<p>2. Consequences of any difficulties experienced for student learning in the course.</p>
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## H Course Evaluation

<p>1 Student evaluation of the course: (Attach Survey Results if available)</p>
<p>a List the most important criticisms and strengths</p>
<p>b Response of instructor or course team to this evaluation</p>

2. Other Evaluation -- What evaluations were received? Specify and attach reports where available. (eg. By head of department, peer observations, accreditation review, other stakeholders etc):	
a List the most important criticisms and strengths	
b Response of instructor or course team to this evaluation	

**I Planning for Improvement**

1. Progress on actions proposed for improving the course in previous course reports:	
Actions proposed in the most recent previous course report(s)	State whether each action was undertaken, the impact, and if the proposed action was not undertaken or completed, give reasons.

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2. Other action taken to improve the course this semester/year  
 Provide a brief summary of any other action taken to improve the course and the results achieved. (For example, professional development for faculty, modifications to the course, new equipment, new teaching techniques etc.)

**New equipments are needed.  
 Visit a Pharmaceutical plant.**

3. Action Plan for Next Semester/Year		
Actions Required	Completion Date	Person Responsible
4. Recommendations to Program Coordinator (if Required)		
(Recommendations by the instructor to the program coordinator if any proposed action to improve the course would require approval at program, department or institutional level or that might affect other courses in the program.)		

Name of Course Instructor:  
 Prof. Omaimah M.N. Al Gohary