



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

Course Specification of Poultry Diseases (2)

I. Course Identification and General Information:						
1	Course Title:	Poultry diseases (2)				
2	Course Number & Code:	PA474				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		2	1		3	
4	Study level/ semester at which this course is offered:	Level 4 - Second semester				
5	Pre –requisite (if any):	PA473				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Bachelor in Veterinary Medicine				
8	Language of teaching the course:	Arabic/ English				
9	Location of teaching the course:	Faculty of Veterinary Medicine				
10	Prepared by:	Dr. Gameel A. AL- Maktari Dr. Ghazi A. Zohair				
11	Date of approval:					

II. Course description:

By the end of this course, the student should be able to distinguish the pathogenesis of bacterial and parasitic diseases of poultry and gained the basic knowledge and experience required to recognize the field and laboratory methods of diagnosis of poultry diseases and treatment, control and prevention of bacterial and parasitic diseases.

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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
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.	a1- Distinguish different diseases that may threaten the poultry health
A4- Describes the foundations and procedural steps for treating all diseases that affect different animals, highlighting the medical conditions that need surgical interventions.	a2- Describe the different disease prevention and control measures.

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
After completing this course, students will be able to:		
a1- Distinguish different diseases that may threaten the poultry health	<ul style="list-style-type: none"> ▪ Lectures ▪ Discussion and Dialogue ▪ Practical application. ▪ Poultry farms visits. ▪ Clinical and field training. ▪ Simulation and mental offers ▪ Brain storm ▪ Self-education 	<ul style="list-style-type: none"> ▪ Written Exams. ▪ Quiz ▪ Essay tests ▪ Oral exams ▪ Practical exams. ▪ Reports.
a2- Describe the different disease prevention and control measures.		

(B) Intellectual Skills:

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

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

Program Intended Learning Outcomes (Sub-PIOs) in Intellectual skills		Course Intended Learning Outcomes (CIOs) in Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
B2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of sick animal.	b1-	Interpret the results of laboratory tests.
B3-	Design appropriate nursing and treatment care plans for different animal diseases and determine prioritizing of therapeutic.	b2-	Suggest preventive medication and vaccination programs

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 (CIOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		<ul style="list-style-type: none"> ▪ Lectures ▪ Discussion and Dialogue ▪ Practical application. ▪ Poultry farms visits. ▪ Clinical and field training. ▪ Simulation and mental offers ▪ Brain storm ▪ Self-education 	<ul style="list-style-type: none"> ▪ Written Exams. ▪ Quiz ▪ Essay tests ▪ Oral exams ▪ Practical exams. ▪ Reports.
b1-	Interpret the results of laboratory tests.		
b2-	Suggest preventive medication and vaccination programs		

(C) Professional and Practical Skills:

Alignment of Course Intended Learning Outcomes (CIOs) to Program Intended Learning Outcomes (PIOs) in: Professional and Practical Skills

Program Intended Learning Outcomes (Sub-PIOs) in Professional and Practical Skills		Course Intended Learning Outcomes (CIOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
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.	c1-	Perform postmortem examination for died and sick chickens collecting data for disease diagnosis.
C3-	Reads the results of laboratory investigations and diagnostic scans and writes reports and	c2-	Collect representative samples for different laboratory tests.

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

prescriptions for all common cases in a proper way.		
---	--	--

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:		
c1- Perform postmortem examination for died and sick chickens collecting data for disease diagnosis.	<ul style="list-style-type: none"> ▪ Practical applications. ▪ Poultry farms visits. ▪ Clinical and field training. ▪ Simulation and mental offers. ▪ Problems solving exam ▪ Researches and projects. ▪ Group and individual work. 	<ul style="list-style-type: none"> ▪ Written Exams. ▪ Oral exams ▪ Practical exams. ▪ Observations. ▪ Reports. ▪ Skills demonstrations. ▪ Seminars.
c2- Collect representative samples for different laboratory tests.		

(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:	
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.	d1-	Utilize library, computer and internet facilities.
D3-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d2-	Communicate with colleagues and specialists.

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:	<ul style="list-style-type: none"> ▪ Discussion and Dialogue 	<ul style="list-style-type: none"> ▪ Practical exams

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

d1-	Utilize library, computer and internet facilities.	<ul style="list-style-type: none">▪ Poultry farms visits.▪ Clinical cases (Clinic)▪ Seminars.▪ Problems solving exam▪ Researches and projects.▪ Self-education.▪ Group working.	<ul style="list-style-type: none">▪ Observations.▪ Reports.▪ Skills demonstr▪ Seminars.
d2-	Communicate with colleagues and poultry specialists.		

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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	Introduction	a1,a2	Economic importance of bacterial infections and terminology	1	2
2	Bacterial diseases of poultry	a1,a2,a3,a4,b1, b2,b3, d1, d2, d3	Colibacillosis, Mycoplasmosis, Salmonella infection, Campylobacteriosis, Pasteurellosis, Ornithobacterium rhinotracheale, Infectious coryza, Bordetellosis (Turkey coryza), Clostridial diseases.	6	12
3	Bacterial diseases of poultry	a1,a2,a3,a4,b1, b2,b3, d1, d2, d3	Staphylococcosis, Streptococcosis, Pseudomonas, Spirochetosis, Tuberculosis, Avian Chlamydiosis.	2	4
4	Parasitic diseases of poultry	a1,a2,a3,a4,b1, b2,b3, d1, d2, d3	External and internal parasites, Protozoal infection, Cryptosporidiosis	3	6
5	Diseases of complex or unknown etiology.	a1,a2,a3,a4,b1, b2,b3, d1, d2, d3	Multicausal respiratory diseases, Multicausal enteric diseases,	2	4
Number of Weeks /and Units Per Semester				14	28

b- Training Aspect:

Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Clinical cases	a1,c1,c2,d1	1	2
2	Clinical cases	a1,c1,c2,d1	1	2

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

3	Sampling for Bacteriological and parasitological tests	a1,c2,d1	1	2
4	Bacteriological isolation for suspected samples.	a1,c2,d1	1	2
5	Parasitological tests used in identification of poultry Coccidiosis and other parasitic infection.	a1,c2,d1	1	2
6	Clinical cases	a1,c1,c2,d1	1	2
7	Clinical cases	a1,c1,c2,d1	1	2
8	Clinical cases	a1,c1,c2,d1	1	2
9	Poultry farm visits	a1,c1,c2,d1,d3	1	2
10	Poultry farm visits	a1,c1,c2,,d1,d3	1	2
11	Slides and Videos for clinical cases	a2,a2,b1	1	2
12	Poultry farm visits	a1,c1c2,d1	1	2
13	Hatchery Hygiene	a1,c1,c2,d1	1	2
14	Clinical cases	a1,c1,c2,d1	1	2
Number of Weeks /and Units Per Semester			14	28

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

V. Teaching strategies of the course:

3-Assessment Methods:

- Lectures
- Discussion and Dialogue
- Practical application (Clinic).
- Poultry farms visits.
- Clinical and field training.
- Simulation and mental offers
- Brain storm
- Self-education

VI. 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%	ALL CILOs
2	Mid-Term Exam	8	10	10%	ALL CILOs
3	Mid-Term Practical Exam	8	10	10%	ALL CILOs
4	Final Practical Exam	13	10	10%	ALL CILOs
5	Oral Exam	13	5	5%	ALL CILOs
	Final Exam	16	55	55%	ALL CILOs
	Total		100	100%	

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

VII. Students' Support:	
Office Hours/week	Other Procedures (if any)
4 hours/week	

VIII. Learning Resource (MLA style or APA style)S:	
Required Textbook(s) (maximum two)	
	<ul style="list-style-type: none">Diseases of Poultry (2020) David E. et al., Willy Blackwell, aaap, 14th editionAvian Diseases Manual, 2013, 7th Edition, AAAP publication. Jacksonville, FL
Recommended Readings and Reference Materials	
	2- Isolation, Identification and characterization of Avian Pathogens, (2008), 5 th ed. AAAA publication. Jacksonville, FL 1- Avian Histopathology, 2008, Ed. O. Fletcher, 3rd Ed, AAAP publication. Jacksonville, FL.
Essential References	
	1-Diseases of Poultry Journal. 2-Poultry Science Journal. 3-Avian Pathology Journal.
Electronic Materials and Web Sites <i>etc.</i>	
	www.poultrydiseases.org www.thepoultrysite.com www.poultrymed.com
Other Learning Material:	

X. Course Policies:	
1	Class Attendance: MANDATORY TO ATTEND ALL COURSE LECTURES
2	Tardy:

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

	Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse.
4	Assignments & Projects: All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
5	Cheating: Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism: Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	Other policies: <ol style="list-style-type: none"> 1.All devices must be on silent or at least on vibration during lectures/labs. 2.Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. 3.Any of type/ form of cheating is not allowed no matter what. 4.Maintain silence during lectures and disturbance is not allowed.

Course Plan of Poultry Diseases (2)

X. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Gameel A. AL-Maktari Dr. Ghazi A. Zohair	Office Hours					
Location & Telephone No.	777710051 777278099	SAT	SUN	MON	TUE	WED	THU
E-mail	Maktary63@gmail.com Gzohair8@gmail.com	2			2		

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

KI. Course Identification and General Information:					
1	Course Title:	Poultry diseases (2)			
2	Course Number & Code:	PA474			
3	Credit hours:	C.H			Total
		Th.	Seminar	Pr.	
		2		1	3
4	Study level/year at which this course is offered:	Level 4, Second Semester			
5	Pre –requisite (if any):	PA473			
6	Co –requisite (if any):	None			
7	Program (s) in which the course is offered	Bachelor in Veterinary Medicine			
8	Language of teaching the course:	Arabic/ English			
9	System of Study:	Regular / Semesters			
10	Mode of delivery:	Lectures and Practical			
11	Location of teaching the course:	Faculty of Veterinary Medicine			

II. Course Description:

X. Intended learning outcomes (ILOs) of the course:
After completing this course, students will be able to:
a1- Distinguish different diseases that may threaten the poultry health
a2- Describe the different disease prevention and control measures.
b1- Interpret the results of laboratory tests.
b2- Suggest preventive medication and vaccination programs.
c1- Perform postmortem examination for died and sick chickens collecting data for disease diagnosis.
c2- Collect representative samples for different laboratory tests.
d1- Utilize library, computer and internet facilities.

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

d2- Communicate with colleagues and poultry specialists.

II. Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Economic importance of bacterial infections and terminology	w1	2
2	Colibacillosis, Mycoplasmosis, Salmonella infection, Campylobacteriosis, Pasteurellosis, Ornithobacterium rhinotracheale, Infectious coryza, Bordetellosis (Turkey coryza), Clostridial diseases.	w1-w7	12
3	Mid-Term Exam	w8	2
4	Staphylococcosis, Streptococcosis, Pseudomonas, Spirochetosis, Tuberculosis, Avian Chlamydiosis.	w9-w10	4
5	External and internal parasites, Protozoal infection, Cryptosporidiosis	W11-w13	6
6	Multicausal respiratory diseases, Multicausal enteric diseases,	W14-w15	4
7	Final exam	W16	2
Number of Weeks /and Units Per Semester		16	32

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

b- Training Aspect:			
Order	Training Tasks	Week Due	Contact hours
1	Clinical cases	W1	2
2	Clinical cases	W2	2
3	Sampling for Bacteriological and parasitological tests	W3	2
4	Bacteriological isolation for suspected samples.	W4	2
5	Parasitological tests used in identification of poultry Coccidiosis and other parasitic infection.	W5	2
6	Clinical cases	W6	2
7	Clinical cases	W7	2
8	Mid- Term Exam	W8	2
9	Clinical cases	W9	2
10	Poultry farm visits	W10	2
11	Poultry farm visits	W11	2
12	Slides and Videos for clinical cases	W12	2
13	Poultry farm visits	W13	2
14	Hatchery Hygiene	W14	2
15	Clinical cases	W15	2
16	Final Exam	W16	2
Number of Weeks /and Units Per Semester		16	32

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

V. Teaching strategies of the course:

- Lectures
- Discussion and Dialogue
- Practical application (Clinic).
- Poultry farms visits.
- Clinical and field training.
- Simulation and mental offers
- Brain storm
- Self-education.

V. Assessment Methods:

No.	Type of Assessment Tasks	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	13	10	10%
5	Oral Exam	13	5	5%
6	Final Exam	16	55	55%
	Total		100	100%

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

VI. Learning Resources:

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

- 1-Diseases of Poultry (2020) David E. et al., Willy Blackwell, aaap, 14th edition
- 2-Avian Diseases Manual, 2013, 7th Edition, AAAP publication. Jacksonville, FL

2- Recommended Readings and Reference Materials

- 2- Isolation, Identification and characterization of Avian Pathogens, (2008), 5th ed AAAP publication. Jacksonville, FL
- 1- Avian Histopathology, 2008, Ed. O. Fletcher, 3rd Ed, AAAP publication. Jacksonville, FL.

3- Electronic Materials and Web Sites etc.

- www.poultrydiseases.org
www.thepoultrysite.com
www.poultrymed.com

X. Course Policies:

1	Class Attendance: MANDATORY TO ATTEND ALL COURSE LECTURES
2	Tardy: Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse.
4	Assignments & Projects: All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
5	Cheating: Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism: Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	Other policies: 1.All devices must be on silent or at least on vibration during lectures/labs. 2.Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

- | | |
|--|--|
| | <p>3.Any of type/ form of cheating is not allowed no matter what.
4.Maintain silence during lectures and disturbance is not allowed.</p> |
|--|--|

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي