



- **Course Level:** Fifth-Year Level
- **Course Name:** Medicine -I/ 3 hour
- **Semester:** first
- **Units:**3

Course Objectives

Upon completion of this course, the student should be familiarized with:

- Student should be able to know the internal diseases in animal species such as cattle , horses , sheep , goat and small animals
- Identify the diagnostic principles and treatment as well as prevention

Course Contents

Course Content		
week	Topics	Hours
	Theoretical Subject	
1	Metabolic diseases: Introduction	2
2	Milk fever	4
3	Downer cow syndrome	2
4	Hypomagnesemic tetanies	4
5	Ketosis	3
6	Pregnancy toxemia	3
7	Postparturient hemoglobinuria	3
8	Azoturia	1
8	Diseases caused by nutritional deficiencies: Introduction	2
9	Vitamin A deficiency	3
10	Vitamin E and selenium deficiency	3
11	Vitamin D deficiency	3
12	Copper deficiency	3
13	Iodine deficiency	2
14	Zinc deficiency	2
14	Deficiency of calcium, magnesium and phosphorus	2
15	Deficiency of vitamin C and manganese	1
15	Deficiency of thiamin, B12, riboflavin and choline	1
15	Exam.	1
Total		45

Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 th weeks
Second Exam	15	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .



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Textbooks and Recommended References

- Radostits et al (2007) Veterinary medicine. 10th Ed
- Anderws (2004) Bovine medicine
- Differential Diagnosis in Small Animal Medicine By Alex Gough 2007
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed.



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- **Course Level:** Fifth-Year Level
- **Course Name:** Medicine –II / 3 hours
- **Semester:** Second
- **Units:**3

Course Objectives

Upon completion of this course, the student should be familiarized with:

- Student should be able to know the internal diseases in animal species such as cattle , horses , sheep , goat and small animals
- Identify the diagnostic principles and treatment as well as prevention

Course Contents

Course Content		
week	Topics	Hours
	Theoretical Subject	
1-5	Diseases of cardiovascular system	14
8	Diseases of musculoskeletal system	10
9-12	Diseases of urinary system	10
15	Diseases caused by poisonous materials	10
	Exam.	1
Total		45

Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 th weeks
Second Exam	15	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- Radostits et al (2007) Veterinary medicine. 10th Ed
- Andrews (2004) Bovine medicine
- Differential Diagnosis in Small Animal Medicine By Alex Gough 2007
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed .



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- **Course Level:** Fifth Year Level
- **Course Name:** Theoretical surgery/ 2 hour
- **Course Name:** Practical surgery / 2 hour
- **Semester:** First
- **Units :** 3

Course Objectives

Upon completion of this course, the student should be familiarized with:

- 1.To provide students with important knowledge about surgery and important to treatment the animals.
- 2.To make students understand different surgical cases .

Course Contents

Course Content		
week	Topics	Hours
	Theoretical Subject	
1	Introduction & classification of surgery : (definition, history , principle of Halsted , indication of surgery)	2
2	Sterilization : (physical ,chemical , modern technique for sterilization)	3
3	Shock & fluid therapy	3
4	Wounds	6
5	Hemorrhage & hemostasis	3
6	Abscess .hematoma , cysts	2
7	Fistula ,sinus , ulcer , gangrene	3
8	Tumor , Burn	3
9	Radiology: (definition, principles, of x-ray, properties of x-ray ,types of x-ray machine, factors affect s effect on x-ray production)	6
10	Contrast radiology	3
11	Protection of x-ray & hazards	2
12	Modern diagnostic aids : (CT. Scan , MRI , U/S , digital x-ray , Gamma camera)	3
13	Fractures : (definition , etiology , classification , treatment , fractures healing , complications)	6
Total		45



Course Contents

Course Content		
week	Topics	Hours
	Practical Subject	
1	Introduction to surgical theater	2
2	Sterilization	4
3	Surgical instruments	4
4	Pre-operative preparation	4
5	Suture & ligature : (suture materials)	4
6	Suture & ligature : (suture patterns)	4
7	x-ray	4
8	Fractures	4
Total		30

Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

1. small animal surgery (Theresa Fossum)
2. current technique in small animal surgery (fubini and Duchrame)
3. handbook of veterinary anesthesia (Muir)
4. textbook of veterinary radiology (Thrall)



- **Course Level:** Fifth Year Level
- **Course Name:** Theoretical surgery /2 hour
- **Course Name:** Practical surgery /2 hour
- **Semester:** Second
- **Units:** 3

Course Objectives

Upon completion of this course, the student should be familiarized with:

- 1.To provide students with important knowledge about surgery and important to treatment the animals.
- 2.To make students understand different surgical cases .

Course Contents

Course Content		
week	Topics	Hours
	Theoretical Subject	
1	Respiratory system: Affections of nostrils and nasal cavity	2
2	Affections of sinuses and guttural pouch	2
3	Affections of larynx and trachea	2
4	Affections of lung	2
5	Affections of chest wall	2
6	Male genital system: (6 hours), Affections of penis and prepuce	2
7	Preparations of teaser	2
8	Castration	2
9	Female genital system: Ovarectomy and ovariohysterectomy, caesarian section, rectovaginal fistula, treatment of pneumovagina	2
10	Female genital system: Ovarectomy and ovariohysterectomy, caesarian section, rectovaginal fistula, treatment of pneumovagina	2
11	Urinary system: (6 hours) Affections of kidney and ureter	2
12	Affections of urinary bladder	2
13	Affections of urethra	2
14	Mammary gland: (4 hours) Affections of mammary gland	2
15	Teat surgery	2
Total		30



Course Contents

Course Content		
week	Topics	Hours
	Practical Subject	
1	Respiratory system: Trephining	2
2	Laryngeotomy	2
3	Tracheotomy	2
4	Rib resection	2
5	Thoracotomy	2
6	Urinary system: Nephrectomy and nephrectomy	2
7	Cystectomy and cystectomy	2
8	Urethrostomy , Urethrostomy, and urethral fistula	2
9	Male genital system: Castration	4
10	Penis surgery: circumcision, reefing operation, amputation of penis	2
11	Female genital system: Ovariectomy and ovariohysterectomy, caesarian section	4
12	Mamnectomy	2
13	Teat fistula	2
Total		30

Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- 1- small animal surgery (Theresa Fossum)
- 2-current technique in small animal surgery (fubini and Duchrame)
- 3-handbook of veterinary anesthesia (Muir)
- 4-textbook of veterinary radiology (Thrall)



- **Course Level:** Fifth-Year Level
- **Course Name:** Theoretical Food hygienic/ 2 hour
- **Course Name:** Practical Food hygienic/ 2 hour
- **Semester:** First
- **Units :** 3

Course Objectives

Upon completion of this course, students will be able to:

1. Critically basic patterns of Food animals Food, Meat Composition and Quality.
2. Techniques for Preservation of Meal, as well as humane Slaughter and meat Hygiene Practice.
3. Understand the student of Red Meat Inspection and Chemical Residues in Meat

Course Contents

Week	Topics	Hours
	Theoretical Subject	
1	The Food Animals	2
2 and 3	Anatomy, Meat Composition and Quality	4
4	Meat Plant Construction and Equipment	2
5	Preservation of Meal	2
6	Plant Sanitation	2
7	From Farm to Slaughter	2
8 and 9	Humane Slaughter	4
10	Meat Hygiene Practice	2
11	Red Meat Inspection	2
12	Poultry Production, Slaughter and Inspection	2
13	Exotic Meat Production	2
14	Chemical Residues in Meat	2
15	Exam	2
Total		30

Course Contents

Week	Topics	Hours
	Practical Subject	
1	Poultry slaughterhouse	2
2	Poultry carcasses: pathological cases, examination and judgment	4
3	Poultry carcasses portioning	2
4 and 5	Meat quality	2
6 and 7	Examination the head and judgment	2
8 and 9	Examination the viscera and judgment	2
10 and 11	Examination the carcasses and judgment	4
12 and 13	Comparative anatomy of organs	2



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14	specification of meat and fat of animals	2
15	Bleeding	2
Total		24

Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks And Recommended References

- 1. J. F. Gracey; D. S. Collins and R. J. Huey (1999). Meat Hygiene. 10th edition. London · Edinburgh· New York · Philadelphia· Sydney· Toronto.
- Adam .k.M. G. paul and V.Zaman.Medical Veterinary Protozoology. London.u.k
- 2.Haddad.j.j and Gemel.isolation of salmonella from living and slaughtering in Mosul
- 3 .Wilson. A.practical meat inspection .blackwell.Scientific Puplic . Oxford
- 4.Getty.R. The anatomy of domestic animals . Saunders comp.philadilphia



- **Course Level:** Fifth-Year Level
- **Course Name:** Theoretical Food hygienic/ 2 hours
- **Course Name:** Practical Food hygienic/ 2 hours
- **Semester:** second
- **Units :** 3

Course Objectives

Upon completion of this course, students will be able to:

1. Critically basic patterns of Food Poisoning and Microbiology, as well as Occupational Injuries and Infections.
2. Infectious disease transmitted from animal to human, as well as Diseases Caused by Helminthes and Arthropod Parasites and Metabolic diseases and Nutritional Deficiencies
3. Understand the student the environmental Pollutants.
4. Study the structure of mammary gland and the milk composition, then study the role of milk in contaminated to transmitted the disease

Course Contents

Week	Topics	Hours
	Theoretical Subject	
1,2 and 3	Food Poisoning and Microbiology	6
4	Occupational Injuries and Infections	2
5	Pathology	2
6	Infectious Diseases	2
7	Diseases Caused by Helminthes and Arthropod Parasites	2
8 and 9	Metabolic Diseases and Nutritional Deficiencies	4
10	Diseases Caused by Environmental Pollutants	2
11	Mammary gland structure	2
12 and 13	Milk composition	4
14	Contaminated Milk	2
15	Exam	2
Total		30

Course Contents

Week	Topics	Hours
	Practical Subject	
1	Teething of animal	2
2	Acidity and abnormal odors	2
3	Milk specific gravity	2
4	Determination of fat and total solid in milk	2
5	Adulteration of milk	2
6	Antibiotic residue in milk	2
7	Mastitis tests	2
8	Determination of aflatoxin in milk	2



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9	Egg examination	2
10	Fish examination	2
11 and 12	Canned food examination	2
13 and 14	Meat micro biology	2
15	exam	2
Total		30

Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks And Recommended References

- 1.adam.k.M.G.paul and V.Zaman.Medical Veterinary Protozoology. London.u.k
- 2.Haddad.j.j and Gemel.isolation of salmonella from living and slaughtering in Mosul
- 3 .Wilson. A.practical meat inspection .blackwell.Scientific Puplic . Oxford
- 4.Getty.R. The anatomy of domestic animals . Saunders comp.philadilphia
5. J. F. Gracey; D. S. Collins and R. J. Huey (1999). Meat Hygiene. 10th edition. London · Edinburgh· New York · Philadelphia· Sydney· Toronto.



- **Course Level:** Fifth-Year Level
- **Course Name:** Clinic IV/ 7 hours
- **Semester:** First
- **Units:** 7

Course Objectives

Upon completion of this course, the student should be familiarized with:

- Teach the students to examine the sick animal
- The student can be able to report, present and discuss the case.
- Also can be able use traditional technical tools for the diagnosis
- Educated on patient care, treatment and monitoring

Course Contents

Course Content		
week	Topics	Hours
	Subject	
1-14	Examination of animals ,diagnosis of disease conditions referred to the Veterinary Teaching Hospital or through field visits. Rotation in surgery ,obstetrics, poultry diseases ,internal medicine and clinical pathology .	74
15	Revision and Exam.	13
Total		60

Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 th weeks
Second Exam	15	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- Clinical Examination of Farm Animals BY Peter G.G. Jackson & Peter D Cockcroft (2002)
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed



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- **Course Level:** Fifth-Year Level
- **Course Name:** Clinic IV/ 7 hours
- **Semester:** Second
- **Units:** 7

Course Objectives

Upon completion of this course, the student should be familiarized with:

- Teach the students to examine the sick animal
- The student can be able to report, present and discuss the case.
- Also can be able use traditional technical tools for the diagnosis
- Educated on patient care, treatment and monitoring

Course Contents

Course Content		
week	Topics	Hours
	Subject	
1-14	Examination of animals ,diagnosis of disease conditions referred to the Veterinary Teaching Hospital or through field visits. Rotation in surgery ,obstetrics, poultry diseases ,internal medicine and clinical pathology .	47
15	Revision and Exam.	13
Total		60

Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 th weeks
Second Exam	15	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- Clinical Examination of Farm Animals BY Peter G.G. Jackson & Peter D Cockcroft (2002)
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed



- **Course Level:** student whom pass Forth-Year Level
- **Course Name:** Summer Clinic/ 2 hours
- **Semester:** summer
- **Units:** 7

Course Objectives

Upon completion of this course, the student should be familiarized with:

- The student can be able to use different technical tools for the diagnosis
- Educated on how to provide patient care and treatment
- Teach the students to examine the sick animal
- Learn how summarize a patient case

Course Contents

Course Content		
week	Topics	Hours
	Subject	
1-14	Examination of animals ,diagnosis of disease conditions referred to the Veterinary Teaching Hospital or through field visits. Rotation in surgery ,obstetrics, poultry diseases ,internal medicine and clinical pathology .	
15	Revision and Exam.	13
Total		60

Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 th weeks
Second Exam	15	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Note: each evaluation step include; medicine, clinical pathology, surgery, obstetrics and poultry diseases

Textbooks and Recommended References

- Clinical Examination of Farm Animals BY Peter G.G. Jackson & Peter D Cockcroft (2002)
- Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed



- **Course level:**–Fifth year level
- **Course name:** Theoretical Fish diseases /2 hours
- **Course name:** Practical Fish diseases /2 hours
- **Semester:** First
- **units:** 3

Course objective:

This course focuses on the etiology, pathogenesis, diagnosis, and treatment of the important diseases in fish. Strategies for species management, handling and disease prevention are emphasized. The course deals with various aspects of aquaculture, including food fish, shellfish, pet fish, and public display aquaria.

Course content

Week	Topics	hours
	Theoretical Subject	
1	Introduction of Ichthyology and fish Pathology	2
2 and 3	Prevention and health control	4
4,5,6 and 7	Infectious disease	8
8 ,9,10 ,11 and 12	Parasitic disease	10
13,14 and 15	Non infectious diseases	6
Total		30

Course content

Week	Topics	hours
	Practical Subject	
1	Introduction in fish breeding and disease	2
2	External appearance for fish and anatomy	2
3	Physical and chemical property of pond water	2
4	Ponds designed	2
5	Fish feeding, breeding ,and types of ponds	2
6	Sample taken and preservation	2
7	Practical examination	2
8	Practical tests and bacterial culture in fish	2
9	Parasitic tests and diagnosis methods in fish	2
10	Practical fishing and field fish exam	2
11	Diagnostic and pathological slides show	2
12	Methods with practical apply	2
13	Practical work on pathological samples for diagnosis	2
14	Ponds fertilization and its methods	2
15	Exam	2
Total		30



Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- Edward J. Noga: Fish Disease: Diagnosis and Treatment, Second Edition



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- **Course Level:** Fifth Year Level
- **Course Name:** Theoretical Artificial Insemination / 2 hours
- **Course Name:** Practical Artificial Insemination/ 2 hours
- **Semester:** First
- **Units :** 3

Course Objectives

Upon completion of this course, the student should be familiarized with:

1. To provide students with important knowledge about structure and function of male reproductive system.
2. To provide students with important knowledge about spermatogenesis process.
3. To make students understand the artificial insemination in different animals.

Course Contents

Course Content		
week	Topics	Hours
	Theoretical Subject	
1	Introduction and history of A.I.	1
2	Anatomy of the male genitalia	2
3	Spermatogenesis	1
4	Hormonal control in male reproduction	4
5	Breeding soundness	2
6	Semen collection methods	2
7	Composition of semen	2
8	Semen evaluation	2
9	Sperm metabolism	2
10	Semen dilution	2
11	Semen storage	2
12	Artificial insemination	2
13	Fertility and infertility in male	4
14	Venereal diseases	2
Total		30

Course Contents

Course Content		
week	Topics	Hours
	Practical Subject	
1	Anatomy of the male genitalia	4
2	Examination of the male genitalia	4
3	Semen collection methods	4
4	Semen evaluation	4
5	Semen dilution	4
6	Semen cooling storage	4
7	Artificial insemination	6
Total		30



Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- Annett Heise (2012). Artificial Insemination in Veterinary Science, A Bird's-Eye View of Veterinary Medicine, Dr. Carlos C. Perez-Marin (Ed.), ISBN: 978-953-51-0031-7,



- **Course Level:** Fifth Year Level
- **Course Name:** Theoretical Reproductive Techniques/ 2 hours
- **Course Name:** Practical Reproductive Techniques/ 2 hours
- **Semester:** Second
- **Units :** 3

Course Objectives

Upon completion of this course, the student should be familiarized with:

- To provide students with important knowledge about new reproductive techniques which used in animals.
- To make students understand how can used this techniques in reproduction of farm animals .

Course Contents

Course Content		
week	Topics	Hours
	Theoretical Subject	
1	Oestrous synchronization	4
2	Super ovulation	1
3	Sperm sexing	4
4	Embryo transfer	4
5	Cloning and splitting of embryo	4
6	In vitro fertilization	4
7	ultrasonograrhy	6
8	Laparoscopic intrauterine insemination	2
9	Suppress of reproductive activity	1
Total		30

Course Contents

Course Content		
week	Topics	Hours
	Practical Subject	
1 and 2	Oestrous synchronization	4
3 and 4	Super ovulation	4
5 and 6	Embryo transfer	4
7 and 8	Cloning and splitting of embryo	4
9 and 10	In vitro fertilization	4
11 and 12	Sperm sexing	4
13 and 14	Clinical application of ultrasonography	4
15	Intrauterine insemination	2
Total		30



Mode of Assessment

Assessment	Score	Period
First Exam	10	10-11 th weeks
Second Exam	10	10-11 th weeks
Practical Exam	10	10-11 th weeks
Assignment, Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- David E. Noakes & David E. Noakes & Timothy J. Parkinson & Timothy J. Parkinson & Gary C. W. England & Gary C. W. England. **Veterinary Reproduction & Obstetrics, 9th Edition**
- Peter G. G. Jackson BVM&S MA DVM&S FRCVS. **Handbook of Veterinary Obstetrics, 2e 2nd Edition**



- **Course Level:** Fifth-Year Level
- **Course Name:** Veterinary ethics/ 1 Hour
- **Semester:** Second
- **units :** 1

Course Objectives

Upon completion of this course, the student should be familiarized with:

- Student should be able to know the basic principles of veterinary ethics
- Identify the Principles with Supporting Annotations

Course Contents

Course Content		
week	Topics	Hours
	Subject	
1	Introduction: veterinary ethics definition	1
2	Animal right and animal welfare	1
3	The Principles of veterinary ethics	1
4-14	The Principles with Supporting Annotations	11
15	Exam	1
Total		15

Mode of Assessment

Assessment	Score	Period
First Exam	15	5-6 th weeks
Second Exam	15	10-11 th weeks
Assignment Projects, Quizzes, Tutorial	10	2 nd , 3 rd , 4 th , 5 th , and 7 th , 8 th , 9 th , 10 th , 11 th .
Final Exam	60	After the 16 th .

Textbooks and Recommended References

- Principles of Veterinary Medical Ethics of the AVMA 2015



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- **Course Level:** Fifth-Year Level
- **Course Name:** Research Projects/ 1 hour
- **Semester:** First
- **units:** 1

Course Objectives

Upon completion of this course, the student should be familiarized with:

- 1- how can make a research correctly.
2. how can make a student to be a good researcher.

Course Contents

week	Topics	Hours
1	• ما هو البحث العلمي • هل تريد أن تصبح باحثًا علميًا	1
2	• أخلاقيات البحث العلمي • ما هي مقومات البحث العلمي	1
3	• العلم (مفهومه العام) • أهداف العلم, الوصف, الفهم, التنبؤ, الضبط والتحكم	1
4	• طرق الحصول على العلم: الذاكرة الإنسانية, السلطة, الحس • الطريقة العلمية في البحث	1
5	• خصائص المعرفة العلمية • البحث العلمي (تعريفه ومبادئه)	1
6	• أساسيات البحث العلمي • مشكلة البحث, مفهومها, مصادر الحصول عليها, اختيار مشكلة البحث, تحديدها, تقويمها, أهمية الدراسات والأبحاث السابقة.	1
7	• خطة البحث (محتوياتها): • العنوان • المقدمة • مشكلة البحث • حدود البحث • مسلمات البحث • فرضيات البحث • إجراءات البحث	1
8	• أدوات البحث العلمي: • العينات وطرق جمعها, مفهومها, اختيارها وأنواعها (الاستبيان, المقابلة, الملاحظة) • الاختبارات, تعريفها, استخدامها, صفاتها, ثبات الاختبار والعوامل المؤثرة فيها.	3
9	• أساليب البحث: • الأسلوب التاريخي • الأسلوب الوصفي • الأسلوب التجريبي • أسلوب النظم • البحث الإجرائي	1



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10	التعامل مع المكتبة والتوثيق في البحث العلمي • معنى التوثيق • التعامل مع المكتبة ومصادر المعرفة فيها • فهارس المكتبة وكيفية التعامل معها • كيفية التعامل مع المراجع • تدوين المعلومات والبيانات أثناء مرحلة الاطلاع • تدوين المراجع	2
11	تقرير البحث والمقالة • مراجع البحث • أهميتها، طرائق كتابتها	2

Mode of Assessment

Assessment	Score	Period
Theoretical Exam	20	1 st -10 th week
Assignment, Seminars, Projects, Quizzes, Reports	10	1 st - 15 th week
Final Exam	70	After Complete the research at the second semester