

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
Tel. 01/2390 350
Division: Clinics
Organizational unit: Internal diseases
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Register No of the organisational unit:
Zagreb, 11/2/2025

		
198129	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	12.02.2025	
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Unudžbeni broj	Prilozi	Vrijednost
251-61-20-25-165	0	-

COURSE SYLLABUS

Course name: Clinical propedeutics
Academic year 2024/2025

Course leader: Assoc. Prof. Martina Crnogaj

Deputy course leader: Assoc. Prof. Iva Šmit

Teachers: Full Prof. Damjan Gračner, PhD; Full Prof. Nada Kučer, PhD; Full Prof. Nikša Lemo, PhD; Full Prof. Vesna Matijatko, PhD; Assoc. Prof. Mirna Brkljačić, PhD; Assoc. Prof. Martina Crnogaj, PhD; Assoc. Prof. Jelena Gotić, PhD; Assoc. Prof. Ivana Kiš, PhD; Assoc. Prof. Iva Šmit, PhD; Assoc. Prof. Marin Torti, PhD; Assist. Prof. Darko Grden, PhD; postdoctoral assistant Maša Efendić; postdoctoral assistant Ines Jović, PhD; postdoctoral assistant Gabrijela Jurkić Krsteska, PhD; postdoctoral assistant Filip Kajin; teaching assistant Katarina Marjanović; teaching assistant Elizabeta Pongrac, Blanka Beer Ljubić, PhD, Petra Bratić, DVM

First day of classes: 17/3/2025

Last day of classes: 5/6/2025

Activities - Clinical propedeutics (1/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
17/03/2025	14:45	15:30	p1 Introduction lecture	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
18/03/2025	9:15	10:45	p2 Species differences in handling, restraint, equipment	6E-1, 6E-2, 6E-3		1:30	Gracner D.	P_klinike
18/03/2025	11:00	11:45	p3 Basic and complementary methods of physical examination	6E-1, 6E-2, 6E-3		0:45	Kucer N.	P_klinike
18/03/2025	12:00	12:45	p4 Order of physical examination procedures	6E-1, 6E-2, 6E-3		0:45	Gotic J.	P_klinike
19/03/2025	10:00	10:45	p5 History taking techniques.	6E-1, 6E-2, 6E-3		0:45	Brkljacic M.	P_klinike
19/03/2025	10:45	11:30	p6 Habitus. Examples of taking medical records.	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
20/03/2025	10:00	11:30	p7 Temperature, heart rate, respiratory rate and ruminal contractions	6E-1, 6E-2, 6E-3		1:30	Torti M.	P_klinike
20/03/2025	15:30	16:15	p31 Creating a diagnostic plan	6E-1, 6E-2, 6E-3		0:45	Brkljacic M.	V_parazitologija
21/03/2025	9:30	11:00	p8 Mucous membranes and lymph nodes	6E-1, 6E-2, 6E-3		1:30	Grden D.	P_klinike
24/03/2025	9:00	10:30	p9 Clinical examination of the heart; pericardiocentesis	6E-1, 6E-2, 6E-3		1:30	Torti M.	P_klinike
24/03/2025	14:00	14:45	p10 Examination of the heart: large animals	6E-1, 6E-2, 6E-3		0:45	Torti M.	P_klinike
24/03/2025	14:45	15:30	p11 ECG	6E-1, 6E-2, 6E-3		0:45	Matijatko V.	P_klinike
25/03/2025	10:00	10:45	p12 Examination of blood vessels and blood pressure	6E-1, 6E-2, 6E-3		0:45	Torti M.	P_klinike

Activities - Clinical propedeutics (2/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
25/03/2025	14:15	15:45	p13 Examination respiratory system; thoracocentesis.	6E-1, 6E-2, 6E-3		1:30	Kiš I.	P_fiziologija
26/03/2025	10:00	11:30	p14 Examination of GI tract 1	6E-1, 6E-2, 6E-3		1:30	Crnogaj M.	P_fiziologija
27/03/2025	11:45	13:15	p15 Examination of GI tract 2	6E-1, 6E-2, 6E-3		1:30	Gotic J.	P_klinike
27/03/2025	15:15	16:45	p32 Dermatologic propedeutics 1	6E-1, 6E-2, 6E-3		1:30	Lemo N.	P_klinike
27/03/2025	16:45	17:30	p33 Dermatologic propedeutics 2	6E-1, 6E-2, 6E-3		0:45	Lemo N.	P_klinike
28/03/2025	8:15	9:00	p16 Examination: rumen, reticulum, omasus	6E-1, 6E-2, 6E-3		0:45	Gracner D.	P_klinike
28/03/2025	9:00	9:45	p17 Examination- liver; Tests for anterior abdominal pain	6E-1, 6E-2, 6E-3		0:45	Gracner D.	P_klinike
28/03/2025	12:00	13:30	v1 Handling, restraint;T.,HR.,RR.,MM.,	6E-1		1:30	Nastavnici na predmetu	V_interna
31/03/2025	11:15	12:45	p18 Medication administration	6E-1, 6E-2, 6E-3		1:30	Brkljacic M.	P_klinike
31/03/2025	13:00	14:30	v1 Handling, restraint;T.,HR.,RR.,MM.,	6E-2		1:30	Nastavnici na predmetu	V_interna
31/03/2025	14:45	16:15	v1 Handling, restraint;T.,HR.,RR.,MM.,	6E-3		1:30	Nastavnici na predmetu	V_interna
01/04/2025	9:15	10:45	v2 Lymph n. BCS	6E-1		1:30	Nastavnici na predmetu	V_interna
01/04/2025	11:00	12:30	v2 Lymph n. BCS	6E-2		1:30	Nastavnici na predmetu	V_interna
01/04/2025	12:45	14:15	v2 Lymph n. BCS	6E-3		1:30	Nastavnici na predmetu	V_interna

Activities - Clinical propedeutics (3/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
01/04/2025	14:30	16:00	p19 Symptoms of GI disease	6E-1, 6E-2, 6E-3		1:30	Šmit I.	P_klinike
02/04/2025	9:15	10:00	p20 Urinary system: clinical signs 1	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
02/04/2025	10:00	10:45	p21 Urinary system: clinical signs 2	6E-1, 6E-2, 6E-3		0:45	Šmit I.	P_klinike
02/04/2025	11:00	12:30	v9 Medication administration and dosage	6E-2		1:30	Nastavnici na predmetu	V_interna 2
02/04/2025	12:45	14:15	v7 Examination of urinary tract	6E-1		1:30	Nastavnici na predmetu	V_interna 2
02/04/2025	14:30	16:00	v9 Medication administration and dosage	6E-3		1:30	Nastavnici na predmetu	V_interna 2
03/04/2025	11:15	12:00	p22 Examination of urinary system	6E-1, 6E-2, 6E-3		0:45	Grden D.	P_klinike
03/04/2025	12:05	12:50	p23 Catheterisation and urinalysis	6E-1, 6E-2, 6E-3		0:45	Šmit I.	P_klinike
03/04/2025	13:00	14:30	v7 Examination of urinary tract	6E-2		1:30	Nastavnici na predmetu	V_interna 2
03/04/2025	14:45	16:15	v7 Examination of urinary tract	6E-3		1:30	Nastavnici na predmetu	V_interna 2
04/04/2025	8:15	9:45	v9 Medication administration and dosage	6E-1		1:30	Nastavnici na predmetu	V_interna 2
04/04/2025	11:30	13:00	v5 Examination of the respiratory system; Thoracocentesis	6E-3		1:30	Nastavnici na predmetu	V_interna

Activities - Clinical propedeutics (4/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
04/04/2025	13:30	15:00	v5 Examination of the respiratory system; Thoracocentesis	6E-2		1:30	Nastavnici na predmetu	V_interna
07/04/2025	10:00	11:30	v5 Examination of the respiratory system; Thoracocentesis	6E-1		1:30	Nastavnici na predmetu	V_interna
07/04/2025	11:45	12:30	p24 Neurologic examination 1	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
07/04/2025	12:30	13:15	p25 Neurologic examination 2	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
08/04/2025	8:15	9:45	v6 Examination of digestive system	6E-2		1:30	Nastavnici na predmetu	V_interna 2
08/04/2025	12:00	13:30	v6 Examination of digestive system	6E-3		1:30	Nastavnici na predmetu	V_interna 2
08/04/2025	14:00	15:30	v6 Examination of digestive system	6E-1		1:30	Nastavnici na predmetu	V_interna 2
09/04/2025	8:15	9:00	p26 Neurologic examination 3	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_fizika
09/04/2025	9:00	9:45	p27 Neurologic examination 4	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_fizika
09/04/2025	11:30	13:00	v4 Heart exam., periph. circul., blood press.	6E-3		1:30	Nastavnici na predmetu	V_interna
09/04/2025	13:15	14:45	v4 Heart exam., periph. circul., blood press.	6E-2		1:30	Nastavnici na predmetu	V_interna
09/04/2025	15:00	15:45	p30 Dyspnea, effusions, changes in blood pressure	6E-1, 6E-2, 6E-3		0:45	Matijatko V.	P_klinike
10/04/2025	10:00	11:30	v4 Heart exam., periph. circul., blood press.	6E-1		1:30	Nastavnici na predmetu	V_interna

Activities - Clinical propedeutics (5/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
10/04/2025	13:30	14:15	p28 Blood collection and complete blood cell count	6E-1, 6E-2, 6E-3		0:45	Šmit I.	P_klinike
10/04/2025	14:15	15:00	p29 Chemistry profiles	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
11/04/2025	10:00	11:30	v8 Introduction to laboratory diagnostics	6E-1		1:30	Nastavnici na predmetu	V_interna 2
11/04/2025	12:00	13:30	v3 ECG	6E-3		1:30	Nastavnici na predmetu	V_interna
11/04/2025	13:45	15:15	v8 Introduction to laboratory diagnostics	6E-2		1:30	Nastavnici na predmetu	V_interna 2
14/04/2025	9:45	11:15	v8 Introduction to laboratory diagnostics	6E-3		1:30	Nastavnici na predmetu	V_interna 2
14/04/2025	13:00	14:30	v3 ECG	6E-2		1:30	Nastavnici na predmetu	V_interna
14/04/2025	14:45	16:15	v3 ECG	6E-1		1:30	Nastavnici na predmetu	V_interna
15/04/2025	12:15	13:45	v10 Neurologic propedeutics part 1	6E-3		1:30	Nastavnici na predmetu	V_interna 2
15/04/2025	14:00	15:30	v10 Neurologic propedeutics part 1	6E-2		1:30	Nastavnici na predmetu	V_interna 2
16/04/2025	11:00	12:30	v10 Neurologic propedeutics part 1	6E-1		1:30	Nastavnici na predmetu	V_interna 2
22/04/2025	9:45	11:15	v12 Dermatologic propedeutics	6E-2		1:30	Nastavnici na predmetu	V_interna 2
22/04/2025	11:15	12:45	p34 Small mammal clinical examination	6E-1, 6E-2, 6E-3		1:30	Brkljacic M.	P_klinike

Activities - Clinical propedeutics (6/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
22/04/2025	13:00	14:30	v12 Dermatologic propedeutics	6E-3		1:30	Nastavnici na predmetu	V_interna 2
22/04/2025	14:45	16:15	v13 Interpretation Lab Results	6E-1		1:30	Nastavnici na predmetu	V_interna 2
23/04/2025	9:45	11:15	v13 Interpretation Lab Results	6E-3		1:30	Nastavnici na predmetu	V_interna 2
23/04/2025	13:00	14:30	v12 Dermatologic propedeutics	6E-1		1:30	Nastavnici na predmetu	V_interna 2
23/04/2025	14:45	16:15	v13 Interpretation Lab Results	6E-2		1:30	Nastavnici na predmetu	V_interna 2
25/04/2025	8:15	9:45	v14 Colloquium	6E-2		1:30	Nastavnici na predmetu	V_interna 2
25/04/2025	13:15	14:45	v14 Colloquium	6E-1		1:30	Nastavnici na predmetu	V_interna 2
25/04/2025	14:45	16:15	v14 Colloquium	6E-3		1:30	Nastavnici na predmetu	V_interna 2
05/05/2025	9:00	10:30	v15 Examination of small mammals	6E-1		1:30	Nastavnici na predmetu	V_interna 2
05/05/2025	10:45	12:15	v16 Creating a diagno.plan, problem list	6E-3		1:30	Nastavnici na predmetu	V_interna 2
05/05/2025	14:15	15:45	v15 Examination of small mammals	6E-2		1:30	Nastavnici na predmetu	V_interna 2
06/05/2025	9:30	11:00	v16 Creating a diagno.plan, problem list	6E-2		1:30	Nastavnici na predmetu	V_interna 2

Activities - Clinical propedeutics (7/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
06/05/2025	13:00	14:30	v16 Creating a diagno.plan, problem list	6E-1		1:30	Nastavnici na predmetu	V_interna 2
06/05/2025	14:45	16:15	v15 Examination of small mammals	6E-3		1:30	Nastavnici na predmetu	V_interna 2
07/05/2025	15:00	16:30	v11 Neurologic propedeutics part 2	6E-2		1:30	Nastavnici na predmetu	V_interna 2
08/05/2025	10:00	11:30	v11 Neurologic propedeutics part 2	6E-3		1:30	Nastavnici na predmetu	V_interna 2
09/05/2025	9:30	11:00	v11 Neurologic propedeutics part 2	6E-1		1:30	Nastavnici na predmetu	V_interna 2
12/05/2025	10:00	13:45	v17 Clinical propedeutics of farm animals and horses 1	6E-2		3:45	Nastavnici na predmetu	V_štala
13/05/2025	11:00	14:45	v17 Clinical propedeutics of farm animals and horses 1	6E-1		3:45	Nastavnici na predmetu	V_štala
14/05/2025	12:00	15:45	v17 Clinical propedeutics of farm animals and horses 1	6E-3		3:45	Nastavnici na predmetu	V_štala
15/05/2025	11:30	15:15	v18 Clinical propedeutics of farm animals and horses 2	6E-3		3:45	Nastavnici na predmetu	V_štala
16/05/2025	12:30	16:15	v18 Clinical propedeutics of farm animals and horses 2	6E-2		3:45	Nastavnici na predmetu	V_štala
19/05/2025	10:45	14:30	v18 Clinical propedeutics of farm animals and horses 2	6E-1		3:45	Nastavnici na predmetu	V_štala
20/05/2025	9:30	13:15	v19 Clinical propedeutics of farm animals and horses 3	6E-1		3:45	Nastavnici na predmetu	V_štala

Activities - Clinical propedeutics (8/8)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
21/05/2025	11:45	15:30	v19 Clinical propedeutics of farm animals and horses 3	6E-3		3:45	Nastavnici na predmetu	V_štala
23/05/2025	11:30	15:15	v19 Clinical propedeutics of farm animals and horses 3	6E-2		3:45	Nastavnici na predmetu	V_štala
26/05/2025	11:30	15:15	v20 Clinical propedeutics of farm animals and horses 4	6E-1		3:45	Nastavnici na predmetu	V_štala
27/05/2025	10:00	13:45	v20 Clinical propedeutics of farm animals and horses 4	6E-2		3:45	Nastavnici na predmetu	V_štala
28/05/2025	11:15	15:00	v20 Clinical propedeutics of farm animals and horses 4	6E-3		3:45	Nastavnici na predmetu	V_štala
29/05/2025	10:00	14:30	v21 Clinical propedeutics of farm animals and horses 5	6E-3		4:30	Nastavnici na predmetu	V_štala
04/06/2025	10:00	11:30	v22 Repetition Clinical examination, clinical report	6E-1		1:30	Nastavnici na predmetu	V_interna 2
04/06/2025	14:00	15:30	v22 Repetition Clinical examination, clinical report	6E-2		1:30	Nastavnici na predmetu	V_interna 2
05/06/2025	12:00	16:30	v21 Clinical propedeutics of farm animals and horses 5	6E-1, 6E-2		4:30	Nastavnici na predmetu	V_štala
05/06/2025	12:15	13:45	v22 Repetition Clinical examination, clinical report	6E-3		1:30	Nastavnici na predmetu	V_interna 2
Total: 99						164:15		

STUDENT OBLIGATIONS

Lecture attendance	Minimal number of points: 3 (23 hours, 50%); maximal number of points: 6 (45 hours). During the semester for the course „Clinical propedeutics“ the student must be present at 23 hours of lectures in order to obtain minimal 3 points. Maximal number of points that can be obtained with attendance to lectures is 6 points (45 hours of lectures, 1 hour of lectures is 0,133 points).
Practicals attendance	Minimal number of points: 8 (42 hours, 70%); maximal number of points: 12 (60 hours). During the semester for the course „Clinical propedeutics“ the student must be present at 42 hours of practicals in order to obtain minimal 8 points. Maximal number of points that can be obtained with attendance to practicals is 12 points (60 hours of practicals, one hour of practical is 0,2 points). Each excused absence within allowed maximum (18 hours of practicals, 30%) student has to compensate in agreement with the practicals leader.
Active participation in seminars and practicals	Minimal number of points: 5; maximal number of points: 10. At the beginning of each practicals the teacher performs a short knowledge test. The content of the knowledge test is theoretical knowledge necessary for the practicals that are going to be held (new practicals content) and/or knowledge from already held practicals. During practicals students will learn predetermined number of procedures and/or examinations. Activity during practicals is recorded in personal file of each student. Activity at the practicals is estimated by the teacher that is holding each practicals.
Final exam	The final exam consists of a written and an oral part. A student can obtain a maximum of 20 points on the written part of the exam. The written part of the exam consists of 20 questions. Each correct answer carries 1 point. The student must answer 12 questions correctly to obtain the minimum of 12 points, in order to meet the requirement for participation in the oral part of the exam. A student can obtain a maximum of 20 points on the oral part of the exam. The oral part of the exam consists of 5 questions. The minimum number of points per question is 2.4 points, and the maximum is 4 points. In order to pass the exam, the student must obtain a minimum of 12 points in the oral part of the exam. The minimum number of points that a student must achieve in the final written and oral exam is 24 points, and the maximum that can be achieved is 40 points.

CLINICAL PROPEDEUTICS

	The oral part of the final exam also contains a mandatory practical part. The questions on the final exam cover the entire course material.
Examination requirements	Student requirements are defined in the Regulations on the University Integrated Undergraduate and Graduate Study of Veterinary Medicine (2024). Given the above, the student must acquire a minimum number of points from all assessment elements in order to take the final exam: a student can justifiably be absent from up to 50% of the lectures; 30% of the seminars and 30% of the exercises.

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	Colloquium consists of 5 theoretical and practical questions that have to be answered by the student orally and/or practically. Minimal number of points: 20, maximal number of points: 32. Each question is maximally 6,4 points. (Grades: 1 = 0 points; 2 = 4,0 points; 3 = 4,8 points; 4 = 5,6 points; 5 = 6,4 points). This year colloquium will be held on 23/4/2024 in scheduled time for practicals. Students are expected to answer each question with more than 51% of content. One insufficient answer from those 5 questions will lead to negative colloquium outcome.
Final exams (dates)	28/4/2025; 30/6/2025; 10/7/2025; 10/9/2025; 18/9/2025
Form of final exam	The final exam consists of a written and an oral part

LITERATURE

Obligatory literature	Lecture handouts via the LMS and/or printed handouts Selected chapters from: RADOSTITS, O. M., I. G. MAYHEW, D. M. HOUSTON (2000): Veterinary clinical examination and diagnosis. WB Saunders, London, Edinburgh, New York, Philadelphia, St Louis, Sydney, Toronto. RIJNBEEK, A., F. J. VAN SLUIJS (2009): Medical history and physical examination in companion animals. 2nd ed., Saunders Elsevier, Houten.
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CLINICAL PROPEDEUTICS

Optional literature	ASPINALL, V., R. ASPINALL (2013): Clinical procedures in small animal veterinary practice. Saunders Elsevier, Edinburgh. BEXFIELD, N., K. LEE (2010): BSAVA Guide to procedures in small animal practice. BSAVA, Gloucester. COSTA, L. R. R., M. R. PARADIS (2018): Manual of clinical procedures in the horse. Willey Blackwell, New Delhi. ENGLAR, R. E. (2017): Performing the small animal physical examination. Willey Blackwell, New York. ROCKETT, J., S. BOSTED (2016): Veterinary clinical procedures in large animal practice. 2nd ed., Cengage Learning, Boston. JACKSON, P. G. G., P. D. COCKCROFT (2002): Clinical examination of farm animals. Blackwell science, Oxford, Malden, Iowa, Victoria, Berlin. MILLER, W. JR, C. GRIFFIN, K. CAMPBELL (2013): Muller & Kirk's Small Animal Dermatology. 7th ed., Saunders-Elsevier, St Louis. SPEIRS, V. E., R. H. WRIGLEY (1997): Clinical examination of horses. Saunders, Pennsylvania
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OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The objective of the course is to acquire basic knowledge and skills necessary to perform physical examination of the domestic animals, compose the list of clinical problems and form the diagnostic plan. Furthermore, the objective of the course is to become acquainted with basic additional diagnostic methods and interpretation of laboratory and other additional findings. Knowledge and skills acquired through participation in this course prepare the students to be able to work in clinical departments and give them base for further learning and specialization in clinical disciplines. Preparation of domestic animals and little carnivores for clinical exam, recognition of internal diseases symptoms using inspection, palpation, percussion and auscultation, sense of smell and measuring (changes of body weight, retarded growth, weakness and syncope, anorexia and polyphagia, changes of behaviour, pain, hypothermia and hyperthermia, cough, dyspnoea, ascites, peritonitis and other causes of abdominal distention, cardiopulmonary arrest, sneezing and nasal discharge, abnormal heart sounds and heart murmurs, EKG, changed pulse qualities, oedema, liquidothorax, vomiting, regurgitation and dysphagia, diarrhoea, constipation, tenesmi, incontinence, melanea, haematochesia, ptyalism, joint effusion, lameness, tremor, ataxia, paresis, paralysis, stupor and coma, epileptiform seizures, polyuria, polydipsia, incontinence, enuresis, dysuria, urinary tract obstruction, urinalysis, vaginal and preputial discharge, anaemia, cyanosis, jaundice, skin changes (alopecia, pruritus, lumps), lymphadenopathies, performing of clinical lab studies of animals according to body systems, intubation, catheterization, venepuncture, rectal examination, therapy preparation for application and i/m, s/c, i/v application, infusion therapy.
Learning outcomes	1. Students will be able to take adequate disease history. 2. Students will be able to make clinical examination 3. Students will have adequate knowledge for basic differential diagnostics of most common clinical problems. 4. Students shall be able to perform additional clinical examinations (depending of the organ system involved). 5. Students will be able to decide which advanced additional clinical methods of examination should be employed and be able to partly conduct those methods (eg. blood analysis).

GRADING SCHEME

<i>Points</i>	<i>Grade</i>
Up to 59	1 (F)
60-76	2 (D,E)
77-84	3 (C)
85-92	4 (B)
93-100	5 (A)


Course leader


Head of organizational unit

Note: The course leader is required to submit a Course Syllabus to all teachers and associates pertaining to the Course