

In the Name of God



**Hamadan University of Medical Sciences and Health Services
Educational Deputy of the University
Center for Studies and Development of Medical Sciences Education**

Theory/Practical Lesson Plan Form

Dear Colleagues,

As the teaching-learning process is one that requires careful planning to achieve its objectives, the preparation of a lesson plan at the beginning of the educational process (as a map and guide for instructors and students) is essential. It serves as one of the main tools for the educational activities of instructors. Therefore, we kindly ask all instructors to pay utmost attention to completing the lesson plan.

Course and Instructor Details (Completing all items in this section is essential)

Course Information

Field	Details
Course Title	Endocrine and Reproductive Physiology
Instructor	Dr. Safoura Raoufi
Course Coordinator	Dr. Safoura Raoufi
Head of Department	Dr. Siamak Shahidi
Credit Hours	Theory: 1.18 units; Practical: 0.12 units
Program & Level	Doctor of Medicine (General) – Professional Doctorate
Teaching Location	Classroom 1, School of Medicine

Session-by-Session Syllabus

Session	Topic(s)	Expected Learning Outcomes (Behavioral)	Learning Domain	Teaching Method(s)	Duration	Teaching Aids	Assessment Method(s)
1	Introduction to Endocrinology	Explain synthesis, blood transport, and target cell effects of hormones with different chemical structures.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz
2	Pituitary Gland	Describe pituitary hormones, especially growth hormone (functions, regulation, disorders).	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz
3	Thyroid Gland	Explain synthesis and action of metabolic thyroid hormones and secretion disorders.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions
4	Adrenal Gland	Explain actions of adrenal cortex hormones and secretion disorders.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz
5	Pancreas	Explain actions of pancreatic hormones and secretion disorders.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz
6	Calcium–Phosphate Balance;	Explain roles of parathyroid	Cognitive	Lecture, Q&A	2 hrs	Video projector	Oral question

	Parathyroid Hormone and Calcitonin	hormone and calcitonin in calcium–phosphate balance (with emphasis on bone, kidney, and vitamin D).				r, computer, whiteboard	s, descriptive quiz
7	Male Reproductive System	Explain spermatogenesis, male sex hormones, and male sexual function.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz
8	Female Reproductive System	Explain oogenesis, female sexual cycle, female sex hormones, and female sexual function.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz
9	Pregnancy and Lactation	Explain fertilization, implantation, placental development and function, pregnancy changes, labor triggers, and lactation process.	Cognitive	Lecture, Q&A	2 hrs	Video projector, computer, whiteboard	Oral questions, descriptive quiz

Grading Scheme

Assessment Type	Assessment Tool	Points (%)
Quiz	Descriptive questions (Sessions 3 & 6)	5%
Class Participation	Oral Q&A (all sessions)	5%
Final Exam	MCQs, short answer, true/false	90%
Total	—	100%

References

Main

- Guyton & Hall, *Textbook of Medical Physiology*, 2021 Edition (Latest Print)
- Ganong's *Review of Medical Physiology*, latest edition (2021)
- Berne & Levy, *Physiology*, latest edition (2021)