



SH02011: FUNDAMENTAL IMMUNOLOGY (MIỄN DỊCH HỌC CƠ SỞ)

Credits: 2 credits (Lecture: 2 – Practice: 0)



EXPECTED LEARNING OUTCOMES

Course objectives	COURSE EXPECTED LEARNING OUTCOMES After successfully completing this course, students are able to	Program expected learning outcomes
Knowledge		
CELO1	Explain what the immunity is and the basic components involved in the immune system (their structure, location and roles)	ELO3, ELO5
CELO2	Describe the activity of the immune system during the immune responses.	ELO3, ELO5
CELO3	Analyze factors causing the body's immune responses and immune response mechanisms	ELO3, ELO5
CELO4	Evaluate the role and application of biotechnology in immunological research	ELO3, ELO5
CELO5	Analyze the role of cytokines in the immune system	ELO3, ELO5
Skills		
CELO6	Analyze and answer questions related to lessons creatively	ELO6
Personal autonomy and responsibility		
CELO7	Update and acquire new knowledge and experience to improve one's professional qualifications. Demonstrate honestly in report, tests, and exams	ELO15

CONTENT

- Chapter 1. Research history and classification of immunity;
- Chapter 2. Structure and function of components involved in the immune system;
- Chapter 3. Antigen;
- Chapter 4. Antibody;
- Chapter 5. Complement system;
- Chapter 6. Cytokines.

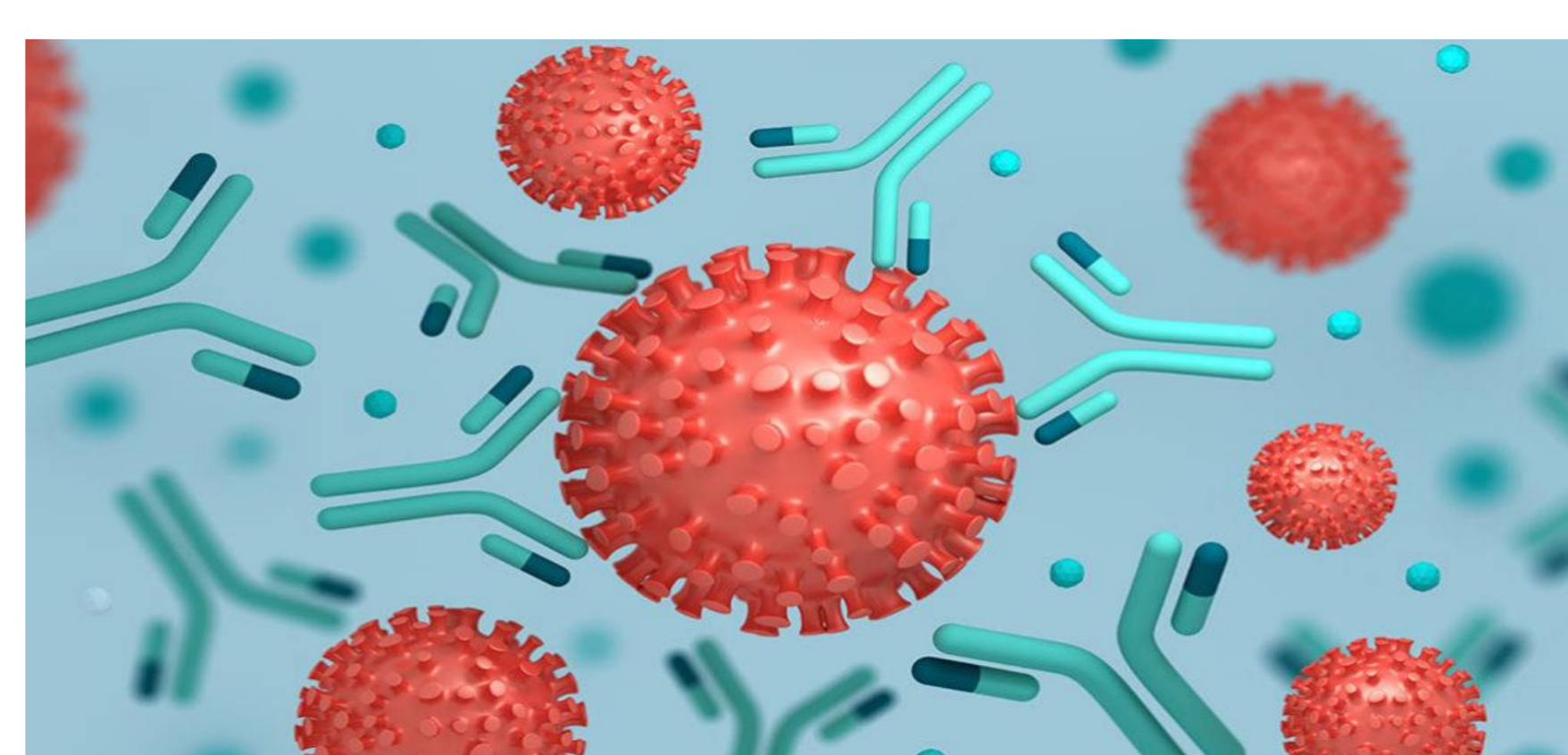
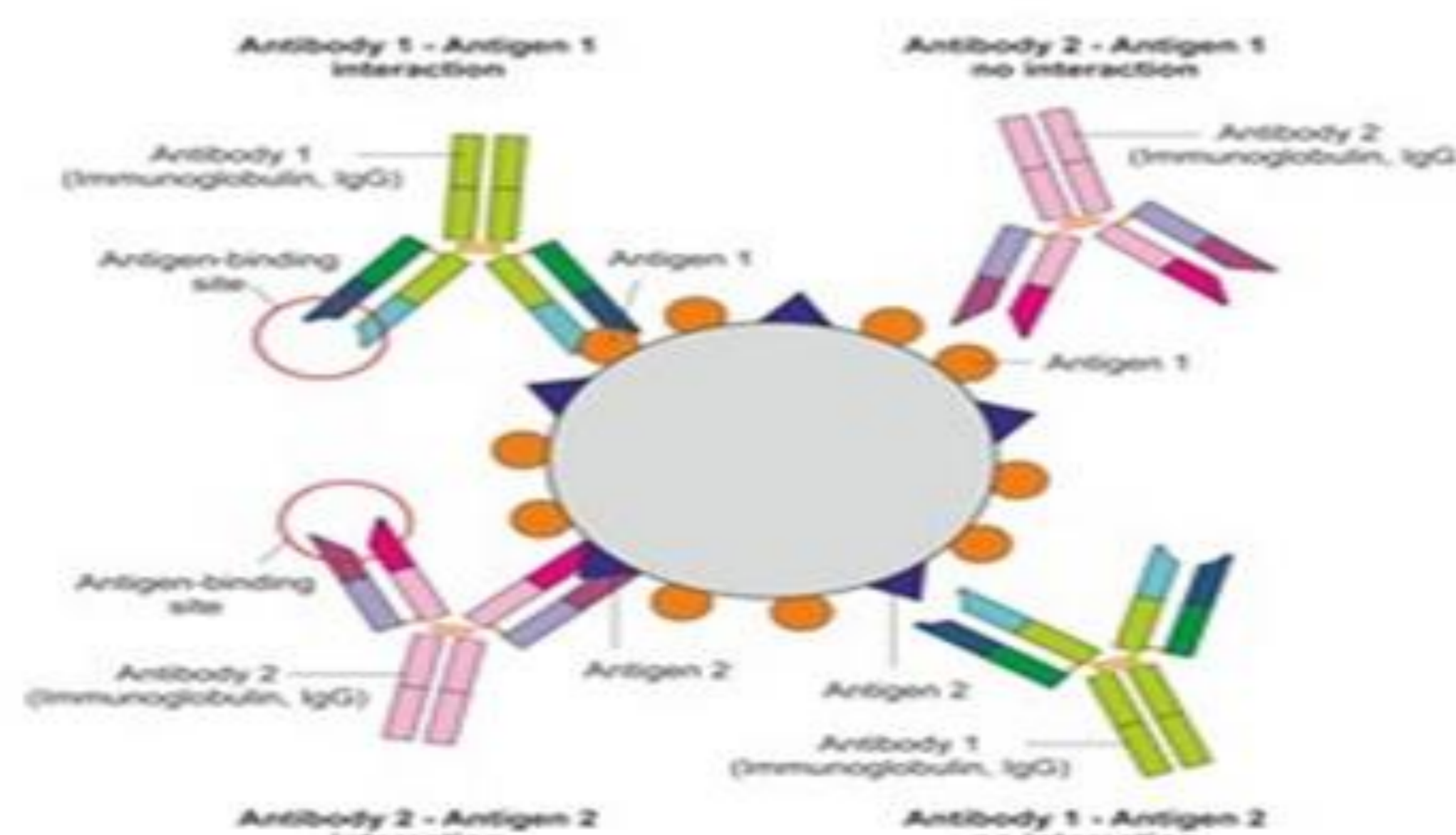
LEARNING METHODS

- Read lecture notes, books and references before attending the class.
- Students are required to listen to lectures in class and perform other learning activities such as solving practice problems after class.
- Prepare and actively participate in discussion.



STUDENT TASKS

- **Attendance:** All students taking this course must attend at least 2/3 of the total theoretical hours of the course, actively participate in discussions.
- **Discussion:** discuss the questions that the lecturer raises in the lessons.
- **Preparing for the lesson:** All students attending this course must prepare for the lesson according to the learning plan given by the lecturer.
- **Mid-term exam:** Students who do not take the midterm exam will be given a score of zero.
- **Final exam:** All students taking this course must take the final exam



ASSESSMENT METHODS

- Attendance: According to regulations of VNUA.
- Exercise and progress tests: Students must complete the exercises, 15-minute tests, group discussion and presentation with satisfied results.
- Mid-term exam: Midterm exam is 50 minutes long with a 50-question quiz.
- Final exam: Final exam is 50 minutes long with a 50-question quiz.
- For online evaluation: Students need to install software and fulfill the requirements for online evaluation.
- Grading: 10 marks
- Weighting:
 - ✓ Attendance: 10 %
 - ✓ Formative assessment: 30%
 - ✓ Final exam: 60%

LECTURERS

1. Assoc. Prof. Dr. Nguyen Xuan Canh, 0934190579, nxcanh@vnua.edu.vn
2. Assoc. Prof. Dr. Nguyen Van Giang, 0986383847, nvgiang@vnua.edu.vn
3. MSc. Tran Thi Hong Hanh, 0988029388, tthanh@vnua.edu.vn
4. MSc. Nguyen Thanh Huyen, 0966201281, thanhhuyen@vnua.edu.vn