MINISTRY OF EDUCATION AND TRAINING
CAN THO UNIVERSITY

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

SUBJECT OUTLINE DETAILS

1. Subject: BIOTECHNOLOGY SEMINAR I (CHUYÊN ĐỀ CNSH I)

- **Code:** BT199C
- **Credits: 1**
- **Hours:** 10 theory hours, 5 seminar and discussion hours

2. Management Unit:

- **Department:** Microbial Biotechnology
- **Faculty/Institute:** Biotechnology Research and Development Institute

3. Prerequisites: none

4. Subject objectives:

4.1. Knowledge:

4.1.1. Having the understanding about the presentation basics and expression of the research interest.

4.1.2. Having the acquaintance with the responsibilities and on-going research activities of Biotechnology related majors.

4.1.3. Learning for the enrichment of the scientific terms and vocabularies of the Biotechnology field.

4.2. Skill:

4.2.1. Being able to practice and give the simple presentation at the general basic level.

4.2.2. Being able to apply the gained knowledge to update information of scientific findings particularly in the context of the application of biotechnology.

4.2.3. Having skills to use and to apply informatic technology in study and research. Having ability for team work, writing and presenting seminar.

4.2.4. Having skills of communication, presentation, learning, and research in terms of specializations relating to biotechnology in English.

4.3. Attitude:

4.3.1. Having a sense of serious and diligent self-study.

4.3.2. Having effort, active study, inquiring mind and solidarity spirit.

4.3.3. Having honesty and responsibility.

5. Brief description of subject content:

The main contents of a subject including: introduction of representative topics at the general simple level referring the biotechnology major; introductory talk about the specialized research groups in BiRDI, eg. Microbiology, Molecular Biology, Plant tissue culture, Biochemistry, Food biotechnology; guidance of presentation basics; enrichment (including meaning and pronunciation) of the scientific terms and vocabularies in the context of the Biotechnology field; group seminars at the general basic level.

6. Subject content structure:

	Content	Hours	Objectives
Part 1.	**Introductory talks**	**3**	
1.1.	Introduction about the course and the specialized research groups in BiRDI		4.1.1; 4.1.2 4.3
1.2.	Representative research topics at the general simple level referring the biotechnology major		4.1.1; 4.1.2 4.2.2; 4.3
Part 2.	**Guidance of presentation basics**	**4**	
2.1.	The instruction and method for basic presentation		4.1.1; 4.1.2 4.2.2; 4.2.3; 4.2.4; 4.3
2.2.	Model of scientific presentation and examples		4.1.1; 4.1.2 4.2.2; 4.3
Part 3.	**Study of the scientific terms and vocabularies in the Biotechnology major**	**3**	
3.1.	Meaning, definition		4.1.3; 4.2.4; 4.3
3.2.	Pronunciation		4.1.3; 4.2.4; 4.3
Part 4.	**Assignment of presentation**	**5**	
4.1.	Student designed simple presentation		4.1.1; 4.2; 4.3
4.2.	Group oral presentation, discussion, questions and answers		4.1.1; 4.2; 4.3

7. Teaching method:

- lecture
- seminar presentation
- discussion

8. Duties of student:

Students have to do the following duties:

- Attend in class at least 80% theory hours. Ask permission of lecturer in advance for any absence.
- Pre-study materials before coming to class (based on syllabus and references)
- Implement group seminar assignments and get the result assessment.

- Organize actively for self-study hours.
- Attend seriously the final written exam and submit of task as assigned.

9. Assessment of student learning outcomes:

9.1. Assessment

No.	Point components	Rules and Requirement	Weights	Objectives
1	Diligen and active study	- Hours of attendance - Active participation and discussion in class	5%	4.3
2	Group oral assignment	Seminar presentation, discussion and assessment of implementation results	25%	4.1; 4.2; 4.3
3	Final exam result	Serious implementation for written exam, submission of task as assigned	70%	4.1; 4.2; 4.3

9.2. Grading

- Grading components and final test scores will be marked on a scale of 10 (0 to 10), rounded to one decimal place.
- Subject score is the sum of all the components of the evaluation multiplied by the corresponding weight. The subject score is marked on a scale of 10 and rounded to one decimal place, then is converted to A-B-C-D score and score on a scale of 4 under the academic provisions of the University.

10. Materials:

Materials information	Code number
[1] Basic biotechnology (0 521 77074 2) / Colin Ratedge; revised by Colin Ratledge, Bjorn Kristiansen: Cambridge, 2001, 0 521 77074 2.- 660.62/ B311	MON.102641
[2] Food Fermentation- Part 1 / Tjakko Abee [et. al.] ; editor: Siemen Schoustra.- Netherland: Wageningen Agricultural, 1999.- 197 tr. ; ill., 30 cm.- 664/ F686/P.1	DIG.000137; CNSH.000159
[3] Microbial biotechnology Fundamentals of applied microbiology / Alexander N Glazer, Hiroshi Nikaido.- 1st.- New York: W. H. Freeman, 1994, 662p., 0 7167 2608 4.- 660.62/ G553	CNSH
[4] Agricultural biotechnology in developing countries / John Komen, Gabrielle Persley.- The Netherland: ISNAR, 1993, 45p., 92 9118 011 9.- 630.274/ K81	NN.013578
[5] Biotechnology in the food industry / M P Tombs.- 1st.- Milton Keynes: Open Univ, 1990, 189p., 0 471 93276 0.- 644/ T656	CNSH
[6] Biotechnology research and applications / J. Gavora ... [et al.]. London: Elsevier applied science, 1988.- 321p., 24cm, 1851062707.- 660.6/ B615	CN.001851

[7] Environmental biotechnology / ALAN SCRAGG.- 1st.- Edinburg Gate, England: Longman, 1999, 249p, 0 582 27682 9.- 628.5/ S433 — NN000273

[8] Applied plant biotechnology / Applied plant biotechnology; Biên tập, hiệu đính: V L CHOPRA ...[et al.].- 1st.- Enfiel, New Hampshire: Science, 1999, 384p, 1 57808 033 9.- 630/ A648 — NN000250

[9] Food, fermentation, and micro-organisms / Charles W. Bamforth..- Oxford: Blackwell Science, 2005.- 216 p., 25 cm, 9780632059874.- 664.024/ B199 — MT.000046

[10] Handbook of fermented functional foods / Edited by Edward R. Farnworth.- Boca Raton, FL.: CRC Press, 2003.- 390 p., 25 cm (Functional foods and nutraceuticals), 0849313724.- 613.28/ H236 — NN.004106; MON.014059

[11] Food Microbiology / Ngo Thi Phuong Dung, Huynh Xuan Phong – Syllabus (in English). Can Tho University Publishing House, 2013.- 219 p., 16x24 cm, 05/QĐ-NXB.ĐHCT. — CNSH.029

11. Self-study Guide:

Week	Content	Theory / Seminar (hours)	Students' duties
1	**Part 1: Introductory talks** 1.1. Introduction about the course and the specialized research groups in BiRDI 1.2. Representative research topics at the general simple level referring the biotechnology major	3	- Pre-study handouts and materials: depend on the topics of specialization. - Refer relevant information from materials, and handouts (ppt slides).
2	**Part 2: Guidance of presentation basics** 2.1. The instruction and method for basic presentation	2	- Pre-study handouts and materials: depend on the topics of specialization. - Refer relevant information from materials, and handouts (ppt slides).
3	2.2. Model of scientific presentation and examples	2	- Refer relevant information from materials, and handouts (ppt slides).
4	**Part 3: Study of the scientific terms and vocabularies in the Biotechnology major** 3.1. Meaning, definition	3	- Pre-study handouts - Preparation for designed presentation and group oral assignment (follow list of groups, 2 students/group): presentation of seminar on required topics that instructed in handout.

	3.2. Pronunciation		
5	**Part 4: Assignment of presentation** 4.1. Student designed simple presentation 4.2. Group oral presentation, discussion, questions and answers	2	Presentation of group seminar: 7-10 minutes/group presentation, and 3-5 minutes for discussion.
6	4.2. Group oral presentation, discussion, questions and answers (cont.)	3	Presentation of group seminar: 7-10 minutes/group presentation, and 3-5 minutes for discussion.

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ON BEHALF OF RECTOR
DEAN/ DIRECTOR

HEAD OF DEPARTMENT