



Course Specification

ID number CHS3408

Cannabis Health Science College of Allied Health Sciences Suan Sunandha Rajabhat University

Second Semester 2022

Category 1 General Information

1. Subject ID and

ID CHS3408

Subject Name Quality Assessment of Cannabis and Medicinal Plant

2. Credit 3 Credits (2-2-5)

3. Curriculum and Subject category

3.1 Curriculum Cannabis Health Science

3.2 Subject category Bachelor of Science

4. Lecturer

Lecturer, Dr. Suwadee Chokchaisiri

5. E – Mail suwadee.ch@ssru.ac.th

6. Semester / Student level

6.1 Semester2...../ sophomore (3rd year)

6.2 Number of students

7. Pre-requisiteNo.....

8. Co-requisitesNo.....

9. Classroom 2103 Samutsongkram campus

Category 2 Course objectives

1. Course Goals

The selection and quality of cannabis and herbs for quality control of medicinal plant to the standards of good manufactory production.

2. Course objectives

Upon completion of this course, the student will;

- Knowing about selection and quality of cannabis and herbs.
- Having the ability on reading, writing, speaking about quality control.
- Can use quality control of medicinal plant.

Category 3 Procedure

1. Course description

The selection and quality of cannabis and herbs for quality control of medicinal plant to the standards of good manufactory production.

2. Study hour per semester

Lecture (Hour)	Additional class (Hour)	Laboratory session (Hour)	Self-study (Hour)
45	-	-	90

3. Work hour per week for counseling and recommendation for student

3.1 Office hour Monday 8.00 – 12.00 room at First floor

3.2 Mobile 0625905255

3.3 E-Mail suwadee.ch@ssru.ac.th

Category 4 Development of student Learning Outcome

1. Moral and Ethics

1.1 Moral and ethical that need to be promoted

- 1) Practice oneself in moral ethics and honestly
- 2) Keeping the discipline, be on time, and having responsibility on oneself and social
- 3) Keeping oneself right and respect to the others rights, appreciate in value and human dignity
- 4) Respect to the rule and regulation of organization and social
- 5) Comply with academic ethics and public health ethics

1.2 Strategy for development of moral and ethics

Ethics of public health curriculum is one of the major operations of the curriculum. Public health curriculum contributes the academic activities in each subject according to development of moral ethics simultaneously with lecturers. The lecturer should be a good role model and intervene the moral and ethics in class in order to cultivate the conscience and complying discipline. This course will emphasize the complying on discipline that focuses on being on time in class, well dress that following the university regulation and being honest. The penalty and award are used for the student behavior adjustment such as admiration of the student who dresses well and follow the university regulation, get in class on time. However, the students that do not follow the rule should be warned.

1.3 Learning outcome assessment

(1) Assessment from student behavior such as being on time, being in class, submission the assignment on time and participate in the class activities.

(2) Assessment form student behavior such as cheated in the examination and plagiarism

(3) Assessment from the assignment responsibility

2. Knowledge

2.1 Learning outcome of knowledge

Student should have the knowledge and understanding about the basic science of public health knowledge in accordance with the act of community public health section 3 in order to apply on professional practice and social development. Therefore, the standard of knowledge should be covered on these following;

- 1) Having the concept, theory relating in the new paradigm of public health, health promotion, assessment and management of health risk
- 2) Assessment and management of health risk
- 3) Having the knowledge of health promotion, health prevention and project management for health development
- 4) Having the knowledge about participatory learning for sustainable health problem solving

2.2 Strategy for development of knowledge

There should be provided learning and teaching in several technics that focuses on concept and theory combination with practical in class and practical in the organizations that are certified from the university or government. There are the academic handouts including paper sheet, handout file that students can download. In addition, there is the E-learning that embedded in several websites of the organization or educational institute. Student can apply the practical skill to reality and should keep up with the time. Moreover, student should apply practical skill based on the characteristic of the detail of the subjects. The learning procedure in reality should be provided and the experts in each field should be invited to convey their experience to students.

2.3 Learning outcome assessment

- (1) Quiz before and after the course finish
- (2) Midterm examination and final examination
- (3) Assessment from the report
- (4) Assessment from the performance of practical skill that should be done following the standard of the curriculum

3. Intellectual skill

3.1 Learning outcome of intellectual skill

Students should develop themselves and can earn their living by themselves. Therefore, the student should be developed the intellectual skill in combination with moral /ethics and the knowledge of the professional of public health. Lecturer should focus on the logical thinking and guide the cause of the problem as well as the way to solve problem. Lecturer should not focus on the memorize technic. The intellectual skill of the student must be promoted as follow;

- 1) Having the ability to holistically analyze situation and factors that define population, family and community health
- 2) Having the ability to plan and integrate the body of knowledge in public health and health science for surveillance of health that co-operation with the participatory community and corroborates with the related organization.
- 3) Having the ability to manage, promote, prevention, rehabilitation and appropriately refer
- 4) Can contribute the academic service on health promotion and environment for people in several age groups and several organizations

3.2 Strategy for development of intellectual skill

- 1) Lecturer teaches and usually guides how to logically think
- 2) Works presentation and group discussion
- 3) Students should practice in health care organization
- 4) Case study about public health

3.3 Learning outcome assessment

- 1) Assess from the performance of practicum
- 2) Assess from the performance of work presentation and submitted assignment
- 3) Assess from comprehensive test after practicum
- 4) Interview the supervisor and the head of mentor

4. Human relation and responsibility skill

4.1 Learning outcome of human relation and responsibility skill

Student should have the human relation behavior and having responsibility to duty and professional career. Student should be accepted from the others as well as they are accepted in their glory and dignity. The standard of learning outcomes of the human relation and responsibility skill are as follow;

- 1) Students possess the human relationship with colleagues and the others in organization
- 2) Have the ability in team working and having the responsibility in their duties
- 3) Possess the leadership characteristic and being a good follower. Student should have the ability in team working with communities and interdisciplinary professional careers.

4.2 Strategy for development of human relation and responsibility skill

For the teaching procedure, it is defined that student should work as a team, having the ability to allocate the assignment and responsibility, liaisons with the other worker and participate with local community.

4.3 Learning outcome assessment

- 1) Assess from observation of team-work behavior and presentation skill in class
- 2) Assess by using behavior evaluation form that perform by supervisor
- 3) Assess the participation and relationship by colleagues and oneself

5. Mathematical analysis communication and using information technology skill

5.1 Learning outcome of mathematical analysis communication and using information technology skill

Students should have the skills of mathematical analysis, communication and using information technology as follow;

- 1) Can apply statistic and bio-statistic for data analysis and data interpretation of quantitative and qualitative data
- 2) Can apply computer and information technology for searching, data collection, data analysis and appropriately select the media for presentation
- 3) Being effective in communication skills including speaking, listening and writing

5.2 Strategy for development of mathematical analysis communication and using information technology skill

- 1) Assign the tasks that need to use analysis skill or mathematic skill and encourage the student using information technology for searching the data
- 2) Case study
- 3) Field training about data management and presentation

5.3 Learning outcome assessment

- 1) Assess from quality of assignment as well as presentation skill
- 2) Assess from case study analysis skill
- 3) Assess from the report of field training

6. Practicum skill

6.1 Learning outcome of practicum skill

Student should have the skill of community analysis, working as interdisciplinary career, using of information technology related in public health and health science in order to control and prevention of diseases. The learning outcome in this skill should be as follow;

1) Have the ability in suggestion of health promotion, disease control, disease prevention, primary care of disease curing and health rehabilitation in accordance with the act of public health section 3

2) Have the ability in using public health and health science technic for primary disease assessment and treatment, patient care and helping to refer the patient base on the act of public health section 3

3) Have the ability on situation evaluation, diagnose and set the plan for health project, operate the project following the plan and monitoring and evaluation

4) Being effective in communication to people in different situation, community and network as well as have the ability in speaking, listening and writing

5) Have the skill of health problem solving with community participation and showing the leadership during working

6) Have the skill of using data for decision making, for servicing people and project facilitator in several levels.

6.2 Strategy for development of Practicum skill

The curriculum shall set to simulate situation and sending the student to practice in real situation. Student will be trained for health promotion, health prevention, health control, health caring and rehabilitation based on the act of public health section 3. Student will be persuaded to evaluate the situation, diagnosis, setting a plan for health project in combination with participatory holistic health problem solving in community.

6.3 Learning outcome assessment

1) Assess based on reality performance that resulting from behavior observation and evaluate the skill in simulated situation or setting the model and the skill of using device of public health

2) Assess from the progressive of learning performance in order to consistently develop the student. The feedback of friend, lecturer and colleague will be addressed for consideration.

3) Assess from the evaluation of 4 dimensions skills including health promotion and prevention of disease, disease control, primary disease curing, and rehabilitation after the practicum finish

Category 5 Course syllabus and Evaluation

1. Course syllabus

week	Topic	hour	Academic activity Learning tool	Lecturer
1	Introduction Objective of the course	4	Teaching by Power point and VDO about biology Question and answer in class	Dr.Suwadee Chokchaisiri
2	Quality Control of Cannabis sativa Products	4	Teaching by Power point and Question and answer in class Researching	Dr.Suwadee Chokchaisiri
3	Qualitative and Quantitative analysis of Cannabis Products - Part1	4	Teaching by Power point and Question and answer in class Researching	Dr.Suwadee Chokchaisiri
4	Qualitative and Quantitative analysis of Cannabis Products - Part 2	4	Teaching by Power point and Question and answer in class	Dr.Suwadee Chokchaisiri
5	Formulation _ Evaluation of Cannabis Products	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
6	Herbal Medicines - Introduction	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
7	Traditional-herbal-medicinal	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
8	Midterm examination			Dr.Suwadee Chokchaisiri
9	WHO guidelines for assessing quality of herbal medicines	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
10	Potentially hazardous contaminants and residues in herbal medicines	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri

11	Guiding principles for assessing safety of herbal medicines with reference to contaminants and residues	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
12	Recommended analytical methods	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
13	Determination of ash	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
14	Determination of haemolytic activity	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
15	Specifications for adsorbents for use in thin-layer chromatography	4	Teaching by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
16	Group presentation	4	Practice by Power point Question and answer in class	Dr.Suwadee Chokchaisiri
17	Final examination			Dr.Suwadee Chokchaisiri

10. Plan for learning outcome evaluation

Learning outcome	Method for evaluation of learning outcome	Evaluated week	Ratio of Evaluation
Moral and Ethic 1.1.2	-being on time in class and submission the assignment on time - Participate in Lecture class and Laboratory class	Every weeks	5% 5%
Knowledge 2.1.1	- Quiz during class -Midterm examination -Final examination - submission the report	* 8 17 *	5% 20% 20% 25%
Intellectual 3.1.2, 3.1.4	Ability in answer the question during class and presentation, Submit the assignments on time	*	10
Human relation and responsibility skill 4.1.1	Participate group activity in class	*	5
Mathematical analysis communication and using information technology skill 5.1.2	Presentation and using computer	*	5
Practicum	There is no evaluation process in this aspect	-	-

Note * Mean that the lecturer evaluate during in class

Category 6 Academic Resources

1. Book

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Category 7 Subject evaluation and Improvement plan

1. Strategy for evaluation the learning outcome effectiveness by students

Evaluation the learning outcome effectiveness by students will be done as follow;

- Student evaluate the course by using lecturer assessment form through the online system of the university
- Student evaluate the course by paper-based system

2. Strategy for evaluation of teaching procedure

- Students evaluate the lecturer by web board, evaluate via online system, board interview, and observe the teaching procedure, evaluate the examination result, lecturers evaluate themselves

3. Teaching improvement

After evaluated the teaching procedure, the improvement procedure will be performed by brainstorming and searching the data for improvement as follow;

- Contribute the brainstorm procedure, allow the students showing their opinions. The result of this process will be used for teaching improvement further
- Seminar and workshop for teaching improvement

4. Verification of student achievement

The curriculum has appointed the member of the verification of student achievement board which can verify the student achievement and the procedures are as follow

- Evaluate the assessment procedure of student learning outcome of the subject
- Random interview the student about the learning outcome result
- Meeting the board for consideration the precision of the examination

5. Revision and planning the effectiveness of the subject

- Improvement of teaching procedure regarding the result of verification of student achievement

Curriculum Mapping that appears in Programme Specification TQF 2

● Major responsibility ○ Minor responsibility

Subject	1. Moral and Ethic					2. Knowledge				3. Intellectual skill				4. Human relation			5. Mathematic analysis, communication and using information technology skill			6. Practicum					
	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	6.5	6.6
Quality Assessment of Cannabis and Medicinal Plant	●	○	○	○	○	●	○	○	○	●	○	○	○	●	○	○	○	○	●	○	○	●	○	○	○