



**Universitas Negeri Surabaya**  
**Faculty of Sports and Health Sciences,**  
**Undergraduate Nutrition Study Program**

**Document Code**

**SEMESTER LEARNING PLAN**

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Applied Computers	1321102062	Compulsory Study Program Subjects	T=2	P=0	ECTS=3.18	5	June 1, 2023
AUTHORIZATION	SP Developer	Course Cluster Coordinator			Study Program Coordinator		
	Satwika Arya Pratama, S.Gz., M.Sc.	Choirul Anna Nur Afifah, S.Pd., M.Si.			Amalia Ruhana, S.P., M.P.H.		

<b>Learning model</b>	Case Studies
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<b>Program Learning Outcomes (PLO)</b>	<b>PLO study program that is charged to the course</b>	
	<b>PLO-6</b>	Able to utilize science and technology in self-development and solving nutritional problems.
	<b>PLO-8</b>	Able to master the scientific basis of nutrition, food, biomedicine, humanities and public health sciences.

<b>Program Objectives (PO)</b>	
<b>PO - 1</b>	Students are able to utilize science and technology through mastering computers to solve problems in the context of developing Family Welfare Education (PKK), especially in the field of nutrition
<b>PO - 2</b>	Students master the Mendeley, WHO Anthro, WHO Anthro Plus, Nutrisurvey, SPPSS, EpiInfo, and Turnitin programs as a basis for implementing various types of courses in the field of Nutrition.
<b>PO - 3</b>	Students are able to make strategic decisions based on information and data analysis, and provide guidance in choosing various alternative solutions to dynamic problems in the work environment.
<b>PO - 4</b>	Students have the character of being responsible, creative, active, confident, and dedicated in developing computer-based skills in the field of nutrition.

<b>PLO-PO Matrix</b>																
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<b>PO Matrix at the end of each learning stage (Sub-PO)</b>																																																																																																						
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<b>Short Course Description</b>	The course material consists of the ability to operate several programs that will support work in the field of nutrition. Students are expected to have knowledge related to software used in nutrition services, research in the field of nutrition, tracking and reference management for scientific writing. The software that will be discussed in this course includes the Mendeley program, WHO Anthro, WHO Anthro Plus, Nutrisurvey, SPPSS, EpiInfo, and Turnitin. The lecture methods used include tutorials and project based learning (PBL).
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<b>References</b>	<b>Main :</b>

1. Romadhoni. 2016. Hand Out, Corel DRAW, dan Photoshop
2. Hendi Hendratman. 2014. The magic of Corel DRAW. Bandung : Informatika Bandung.
3. Team. Version:3.0. User Manual: Textile & Fashion Design System. Germany: Richpeace Technology Limited.
4. Yunardi, Eppy. 2003. Trik Membuat Berbagai Efek dengan Photoshop 7.0. Surabaya: Indah.Good, W., 2004. Sosiologi Keluarga. Jakarta: Bumi Aksara.
5. Stallings,. Williams, 2000. Data And Computer Communications, Prentice Hall Inc.
6. Budi Rahardjo, 2000, Memahami Teknologi Informasi, Elex Media Komputindo.
7. Muhammad Noer. <http://www.presentasi.net>
8. <http://www.canva.com>
9. <https://apoenks.wordpress.com/2017/05/18/tutorial-sparkol-videoscribe-offline-mode-bahasa-indonesia>

**Supporters:**

1. Modul Komputer Terapan

**Supporting lecturer**  
Lini Anisfatus Sholihah, S.Gz., M.Sc.  
Satwika Arya Pratama, S.Gz., M.Sc.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [ Estimated time]		Learning materials [ References ]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline ( offline )	Online ( online )		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	1.Students understand RPS and tuition contracts. 2.Students are able to master Mendeley for scientific writing and searching for scientific sources	1.Describes the use of Mendeley for scientific writing 2.Practice properly searching scientific sources from Medeley and saving them 3.Briefly describe how to write citations and bibliography for scientific writing 4.Practicing the correct use of Mendeley to write citations and scientific bibliography to write scientific articles. 5.Objective test	<b>Criteria:</b> Practicing Mendeley software correctly  <b>Form of Assessment :</b> Practice / Performance	Discussion and brain storming. Lecture and discussion. Practice. 2 X 50		<b>Material:</b> Mendeley <b>Library:</b> Applied Computer Module	5%
2	Students are able to master Mendeley for scientific writing and searching for scientific sources	1.Benefits and uses of Mendeley for scientific writing 2.The practice of searching scientific sources from Medeley and storing them 3.A brief introduction to writing citations and bibliography and several ways of writing them 4.Practice using Mendeley to write citations and bibliography of scientific articles	<b>Criteria:</b> Practicing Mendeley for scientific reference management and writing.	Tutorial and practice 2 X 50		<b>Material:</b> Mendeley <b>Library:</b> Applied Computer Module	5%

3	Students are able to run the Nutrisurvey application to assess dietary nutritional status	<ol style="list-style-type: none"> <li>1.The use of Nutrisurvey for scientific research in the field of nutrition and how to install Nutrisurvey software</li> <li>2.Enter food data and food recipes into Nutrisurvey.</li> <li>3.Food recall assignment for next practice</li> <li>4.The practice of entering food consumption data from food recalls into Nutrisurvey</li> <li>5.Practice of processing food consumption data from Nutrisurvey</li> </ol>	<p><b>Criteria:</b> Practicing the Nutrisurvey program correctly.</p> <p><b>Form of Assessment :</b> Practice / Performance</p>	Tutorial and practicum 2 X 50		<p><b>Material:</b> Turnitin <b>Library:</b> <i>Applied Computer Module</i></p>	5%
4	Students are able to carry out a Nutrisurvey to assess dietary nutritional status	<ol style="list-style-type: none"> <li>1.The use of Nutrisurvey for scientific research in the field of nutrition and how to install Nutrisurvey software</li> <li>2.Enter food data and food recipes into Nutrisurvey.</li> <li>3.Food recall assignment for next practice</li> <li>4.The practice of entering food consumption data from food recalls into Nutrisurvey</li> <li>5.Practice of processing food consumption data from Nutrisurvey</li> </ol>	<p><b>Form of Assessment :</b> Practice / Performance</p>	Tutorial and practice 2 X 50		<p><b>Material:</b> Turnitin <b>Library:</b> <i>Applied Computer Module</i></p>	5%
5	Students are able to run the WHO Anthro and WHO Anthro Plus applications	<ol style="list-style-type: none"> <li>1.Introduction to WHO Anthro and WHO Anthro Plus.</li> <li>2.Entering data into WHO Anthro and WHO Anthro Plus from research questionnaires</li> </ol>	<p><b>Form of Assessment :</b> Practice / Performance</p>	Tutorial and Practice 2 X 50		<p><b>Material:</b> WHO Anthro and WHO Anthro Plus <b>Library:</b> <i>Applied Computer Module</i></p>	0%
6	Students are able to run the WHO Anthro and WHO Anthro Plus applications	<ol style="list-style-type: none"> <li>1.Introduction to WHO Anthro and WHO Anthro Plus.</li> <li>2.Entering data into WHO Anthro and WHO Anthro Plus from research questionnaires</li> </ol>	<p><b>Form of Assessment :</b> Practice / Performance</p>	Tutorial and Practice 2 X 50		<p><b>Material:</b> WHO Anthro and WHO Anthro Plus <b>Library:</b> <i>Applied Computer Module</i></p>	5%

7	Students are able to run SPSS to analyze data	<ol style="list-style-type: none"> <li>1.SPSS features and uses</li> <li>2.Entering SPSS data from excel data</li> <li>3.Perform data management in SPSS</li> <li>4.Checking data normality using statistical tests and QQ Plot, detecting outliers and excluding data.</li> <li>5.Carrying out categorical data tests (chi square in spss) includes changing data variables into categorical data and reading the test results</li> <li>6.Carry out continuous data tests (independent t test and paired t test)</li> <li>7.Perform nonparametric tests for data that is not normally distributed</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial, Project Based Learning 2 X 50		<b>Material:</b> Applied Computers <b>Library:</b> Applied Computer Module	5%
8	MIDTERM EXAM	MIDTERM EXAM	<b>Criteria:</b> MIDTERM EXAM  <b>Form of Assessment :</b> Test	MID SEMESTER EXAMINATION 2 X 50			13%

9	Students are able to run the SPSS application for data processing	<ol style="list-style-type: none"> <li>1.1. Features and uses of SPSS</li> <li>2.2. Enter SPSS data from Excel data</li> <li>3.3. Carry out data management in SPSS</li> <li>4.4. Check the normality of the data using statistical tests and QQ Plot, detect outliers and exclude data.</li> <li>5.5. Carry out a categorical data test (chi square in spss) including changing data variables into categorical data and reading the test results</li> <li>6.6. Carry out continuous data tests (independent t test and paired t test) Carry out nonparametric tests for data that is not normally distributed</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial, practice 2 X 50		<b>Material:</b> SPSS <b>Library:</b> <i>Applied Computer Module</i>	8%
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10	Students are able to run the SPSS application for data processing	<ol style="list-style-type: none"> <li>1.1. Features and uses of SPSS</li> <li>2.2. Enter SPSS data from Excel data</li> <li>3.3. Carry out data management in SPSS</li> <li>4.4. Check the normality of the data using statistical tests and QQ Plot, detect outliers and exclude data.</li> <li>5.5. Carry out a categorical data test (chi square in spss) including changing data variables into categorical data and reading the test results</li> <li>6.6. Carry out continuous data tests (independent t test and paired t test) Carry out nonparametric tests for data that is not normally distributed</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial, practice 2 X 50		<b>Material:</b> SPSS <b>Library:</b> <i>Applied Computer Module</i>	8%
11	Students are able to run the SPSS application for data processing	<ol style="list-style-type: none"> <li>1.1. Features and uses of SPSS</li> <li>2.2. Enter SPSS data from Excel data</li> <li>3.3. Carry out data management in SPSS</li> <li>4.4. Check the normality of the data using statistical tests and QQ Plot, detect outliers and exclude data.</li> <li>5.5. Carry out a categorical data test (chi square in spss) including changing data variables into categorical data and reading the test results</li> <li>6.6. Carry out continuous data tests (independent t test and paired t test) Carry out nonparametric tests for data that is not normally distributed</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial, practice 2 X 50		<b>Material:</b> SPSS <b>Library:</b> <i>Applied Computer Module</i>	8%

12	Students are able to run the SPSS application for data processing	<ol style="list-style-type: none"> <li>1.1. Features and uses of SPSS</li> <li>2.2. Enter SPSS data from Excel data</li> <li>3.3. Carry out data management in SPSS</li> <li>4.4. Check the normality of the data using statistical tests and QQ Plot, detect outliers and exclude data.</li> <li>5.5. Carry out a categorical data test (chi square in spss) including changing data variables into categorical data and reading the test results</li> <li>6.6. Carry out continuous data tests (independent t test and paired t test) Carry out nonparametric tests for data that is not normally distributed</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial, practice 2 X 50		<b>Material:</b> SPSS <b>Library:</b> <i>Applied Computer Module</i>	8%
13	Students are able to use Epi Info for research	<ol style="list-style-type: none"> <li>1.1. Students understand the features and uses of EpiInfo</li> <li>2.2. Students are able to master EpiInfo to create questionnaires</li> <li>3.3. Students are able to input data via Epi Info</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial and practice 2 X 50		<b>Material:</b> Epi <b>Library Info:</b> <i>Applied Computer Module</i>	5%
14	Students are able to use Epi Info for research	<ol style="list-style-type: none"> <li>1.1. Students understand the features and uses of EpiInfo</li> <li>2.2. Students are able to master EpiInfo to create questionnaires</li> <li>3.3. Students are able to input data via Epi Info</li> </ol>	<b>Form of Assessment :</b> Practice / Performance	Tutorial, Project Based Learning 2 X 50		<b>Material:</b> Epi <b>Library Info:</b> <i>Applied Computer Module</i>	5%

15	Students are able to use Epi Info for research	1.1. Students understand the features and uses of EpiInfo 2.2. Students are able to master EpiInfo to create questionnaires 3.3. Students are able to input data via Epi Info	<b>Form of Assessment :</b> Practice / Performance	Tutorial and practice 2 X 50		<b>Material:</b> Epi <b>Library Info:</b> Applied Computer Module	5%
16	FINAL EXAMS		<b>Form of Assessment :</b> Test	2 X 50			15%

#### Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Practice / Performance	72%
2.	Test	28%
		100%

#### Notes

- Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment:** test and non-test.
- Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.