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| Description: unsri logo | **SRIWIJAYA UNIVERSITY****FACULTY OF AGRICULTURE****DEPARTMENT OF AGRICULTURAL SOCIOECONOMICS****AGRIBUSINESS** **STUDY PROGRAM** |
| **SEMESTER LEARNING PLAN** |

1. **COURSE IDENTITY**

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| Courses | : Computer Applications | Code: PSA3005 | Semester: 5/6 | Credits: 3 (2-1) |
| Study materials | : Computer Science |
| Course description | Introduction to computers, hardware and software, data Operating Systems, Basic and Fortran, All Microsoft Office Software, Database Management, Linear Programming and Statistical Analysis. |
| CPL/ILO | 1. ***Attitudes Competency (S)***

CPL S-8: To be able to internalize correct academic values and norms related to honesty, ethics, attribution, copyright, confidentiality and data ownership1. ***Knowledge Competency (P)***

CPL P-4: To be able to understand operationally the social, economic and technological principles that underlie the management of agricultural businesses and the agricultural industry as well as socio-cultural aspects in rural areas for decision making and problem solving in the agribusiness sector.1. ***General Skills (KU)***

CPL KS-5: To be able to communicate and negotiate effectively with stakeholders in developing agribusiness operations systems by utilizing information technology in the agribusiness sector, to create sustainable and efficient agribusiness.CPL KS-10: To be able to adapt quickly to the world of work and the environment.1. ***Special Skills (KK)***

CPL KK-1: To be able to use methods and formulate strategies for using resources to increase personal and community capacity in facing the challenges of future agribusiness development. |
| CPMK/CLO | CLO 1 / CPMK 1: Students can understand the theory of hardware and software, data Operating Systems, Basic and Fortran, All Microsoft Office Software, Database Management, Linear Programming and Statistical Analysis.CLO 2 / CPMK 2 : Students are able to analyze with a conceptual and theoretical framework problems that will be applicable in many works that relate with data analysis.  |
| CPL and CPMK maps |

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| CLO | Attitudes Competency (S) | Knowledge Competency (P) | General Skills (KU) | Special Skills (KK) |
| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | P 1 | P 2 | P 3 | P 4 | P 5 | P 6 | KU1 | KU2 | KU 3 | KU4 | KU 5 | KU 6 | KU7 | KU8 | KU9 | KU 10 | KK 1 | KK 2 | KK3 | KK4 | KK 5 | KK 6 |
| CLO 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |
| CLO 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |

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|  Lecturers | : 1. Dr. Ir. Maryadi, M.Si.1. Ir. Mirza Antonie, M.Si., Ph.D.
2. Dr. Agustina Bidarti, SP., M.Si.
3. Henny Malini, SP., M.Si.
 | Lecturer in charge | : Dr. Ir. Maryadi, M.Si. |

**LEARNING PROGRAM**

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| **CPL** | **CMPK**  | **Week to** | **Final ability of each learning stage (sub-CPMK)** | **Subject Matter** | **Valuation** | **Forms of Learning;****Learning Methods;****Student assignments****[Estimated Time]** | **Learning Materials****[Bibliography]** | **Assessment Weights** |
| **Indicators** | **Criteria & techniques** | **Face-to-face** | **Structured Assignments** | **Self-Study** |
| **(0)** | **(1)** | **(2)** | **(3)** | **(4)** | **(5)** | **(6)** | **(7)** | **(8)** | **(9)** | **(10)** | **(11)** |
| S-8,P-4 | CPMK 1 | 1 | Able to understand and explain introduction of applied computer science | Applied Computer Science  | Students are able to explain introduction of applied computer science | Accuracy in explaining introduction of applied computer science | Face-to-face with *Co-learning* Methods(2x50') | Creating a summary of the learning material by the method *Self-Directed Learning*(3x60') | *Self-Study with Self-Directed Learning* (3x60') | 1,2The development of computer science. | 2 |
| S-8,P-4 | CPMK 1 | 2 | Able to understand and explain editing and beautifying the text  | Editing and beautifying the text  | Students are able to explain editing and beautifying the text  | Accuracy in explaining of edit and beauty the text | Face-to-face with *Co-learning* Methods(2x50') | Collecting literature discussing institutional case (*Small Group discussion*)(3x60') | *Self-Study with Self-Directed Learning* (3x60') | 1,2,3,4Definition of Operating Systems, Basic and Fortran, All Microsoft Office Software. | 2 |

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| S-8,P-4 | CPMK 1 | 3 | Able to understand and explain creating tables, figures and table of contents | Creating tables, figures and table of contents | Students are able to explain creating tables, figures and table of contents | Accuracy in explaining of creating tables, figures and table of contents | Face-to-face with *Co-learning* Methods(2x50') | Collecting literature and discussing the challenges of managing data (*Small Group discussion*) (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1,2,3,4Knows data Operating Systems, Basic and Fortran, All Microsoft Office Software, Database Management, and Statistical Analysis. | 2 |
| S-8,P-4 | CPMK 1 | 4 | Able to understand and implement pages and printing | pages and printing | Students are able to implement pages and printing | Accuracy in implementation of pages and printing | Face-to-Face (2x50') with *Role Play and Simulation* method | Collecting literature and discussing (*Small Group discussion*) (3x60')  | *Self-Study with Self-Directed Learning* (3x60') | 1.3Data Base Management | 2 |
| S-8,P-4 | CPMK 1 | 5 | Able to understand and explain the basic technique of using Ms. Excel | The basic technique of using Ms. Excel  | Students are able to explain the basic technique of using Ms. Excel  | Accuracy in explaining the basic technique of using Ms. Excel  | Face – to -face with *Co-learning* Methods (2x50') | Collecting literature and discussing (*Small Group discussion*) (3x60') | *Self-Study with Self-Directed Learning* (3x60') | 1,2Data Base Analysis | 2 |

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| S-8,P-4 | CPMK 1 | 6 | Able to understand and explain mathematical logical operations | Mathematical Logical Operations | Students are able to explain mathematical logical operations | Accuracy in explaining of mathematical logical operations | Face-to-face with *Co-learning* Methods(2x50') | Collecting literature and discussing rational choice theory (*Small Group discussion*) (3x60') | *Self-Study with Self-Directed Learning* (3x60') | 1,2,4Steps for rational selection of data analysis | 2 |
| S-8,P-4 | CPMK 1 | 7 | Able to understand and explain statistics and finance | Statistics and finance | Students are able to explain statistics and finance | Accuracy in explaining of statistics and finance | Face-to-face with *Co-learning* Methods(2x50') | Collecting literature and discussing rational choice theory (*Small Group discussion*) (3x60') | *Self-Study with Self-Directed Learning* (3x60') | 1,2,4Features of data analysis | 2 |
| S-8,P-4 | CPMK 1 | 8. | Midterm Exam (Materials 1-7) 150 minutes | 30 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 9 | Able to understand and explain of graphics | Graphics | Students are able to explain of graphics. | Accuracy in explaining of graphics | Face-to-face with *Co-learning* Methods(2x50') | Collecting and discussing externalities of activities (*Small Group discussion*) (3x60')  | *Self-Study with Self Directed Learning* (3x60') | 1,3Data Analysis | 3 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 10 | Able to understand and explain basics of Ms. power point | Basics of Ms. power point  | Students are able to explain basics of Ms. power point | Accuracy in explaining of basics of Ms. power point | Face-to-face with *Co-learning* Methods(2x50') | Collecting Data and Discussing (*Small Group discussion*) (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1,3,4Data Analysis | 3 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 11 | Able to understand and explain import techniques, file settings, images and graphics | Import techniques, file settings, images and graphics  | Students are able to explain import techniques, file settings, images and graphics | Accuracy in explaining of import techniques, file settings, images and graphics | Face-to-face with *Co-learning* Methods(2x50') | Collecting literature and Data Analysis(*Small Group discussion*) (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1,2Data Output Presentation | 3 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 12 | Able to understand and explain of text coloring. | Text Coloring  | Students are able to explain of text coloring. | Accuracy in the explanation of text coloring. | Face-to-face with *Co-learning* Methods(2x50') | Collecting Data and discussing (*Small Group discussion*) (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1,3,4Data Output Presentation | 3 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 13 | Able to understand and explain writing presentation settings. | Writing presentation settings | Students are able to explain writing presentation settings | Accuracy in explaining of write presentation settings | Face-to-face with *Co-learning* Methods(2x50') | Collecting and discussing Data*(Small Group discussion*) (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1.3Data Output Presentation | 3 |

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| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 14 | Able to understand to create a PDF document and the technical support | Create a PDF Document and the technical support. | Students can understand to create a PDF document and the technical support | Accuracy in understanding to create a PDF document and the technical support | Presentation (3x50')by the literature review method(2x50') | Data Collecting, Analysis and Presentation (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1,2,3,4Data Presentation | 4 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 15 | Able to understand to using database in data management | Using Database in data management. | Students can understand to using database in data management | Accuracy in understanding to use database in data management | Presentation (3x50')by the literature review method(2x50')  | Data Collecting, Analysis and Presentation (3x60') | *Self-Study with Self Directed Learning* (3x60') | 1,2,3,4Data Presentation  | 4 |
| S-8,P-4,KU-5,KK-1 | CPMK 1,2  | 16 | Final Exam | 33 |

**Notes in accordance with the SE Dikti Permendikbud No 3/2020:**

1. Learning Outcomes of Study Program Graduates (CPL-PRODI) are abilities possessed by every STUDY PROGRAM graduate which is an internalization of attitudes, mastery of knowledge and skills in accordance with the level of study program obtained through the learning process.
2. The CPL charged in the course are some of the learning outcomes of study program graduates (CPL-PRODI) which are used for the formation/development of a course consisting of aspects of attitudes and values (CP-STN), general skills (CP-KU), special skills (CP-KK) and knowledge (CP-P).
3. Course CP (CPMK) is an ability specifically described from the CPL charged to the course, and is specific to the course's study material or learning material.
4. Sub-CP Course (Sub-CPMK) is an ability that is specifically described from CPMK that can be measured or observed and is the final ability planned at each stage of learning, and is specific to the learning material of the course.
5. Indicators of assessment of ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
6. Assessment Criteria are benchmarks that are used as a measure or benchmark for learning achievement in assessments based on predetermined indicators. The assessment criteria are guidelines for the assessee so that the assessment is consistent and unbiased. Criteria can be quantitative or qualitative
7. Assessment techniques: test and non-test.
8. Forms of learning: Lectures, Responses, Tutorials, Seminars or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
9. 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.
10. Learning Materials are details or descriptions of study materials that can be presented in the form of several subjects and sub-subjects.
11. The weight of the assessment is the percentage of the assessment of each achievement of the sub-CPMK which is of a magnitude with the degree of difficulty of achieving the sub-CPMK, and the total is 100%.
12. **TM**=Face-to-Face,  **PT**=Structured Assignment, **BM**=Self-Study.
13. **The calculation of 1 (one) credit per week is equivalent to:**
* Face-to-Face 50 minutes
* 60-minute structured assignments
* 60-minute self-study

**Work load**: (TM 2100 minutes + PT 2520 minutes + BM 2 520 minutes + exam 150 minutes ) = 7440 minutes /60 minutes = 124 hours /25 hours = 4. 96 ECTS

**References:**

1. Antoni, M. 2010. Aplikasi Komputer. Diktat Kuliah. Fakultas Pertanian Universitas Sriwijaya.
2. Vincentia Dwiyani Subiyanto. 1997. Belajar Menggunakan Excel, PT. Elex Media Komputindo. Jakarta.
3. CD belajar mudah dan cepat MS Excel, Intra Lonk Sinergi. Tutorial Sesi i 1 s/d 3
4. Article and Research Paper.

**Asssignment Method**

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| No.  | Assignment | Material | Assessment Method | Score | Weight | W X S | CLO 1 | CLO 2 | CLO 3 | CLO 4 |
|   |   |   |   |   |   |   |   |   |   |   |
| 1 | Assignment1 | Lec 1-3 | Essays questions | 90 | 0.03 | 2.7 | 90 |   |   |   |
|   |   |   | Review Paper | 90 | 0.03 | 2.7 | 90 |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |
| 2 | Assignment 2 | Lec 4-7 | Case Exam | 90 | 0.08 | 7.2 |   | 90 |   |   |
|   |   |   | Review Paper | 90 | 0.03 | 2.7 |   | 90 |   |   |
|   |   |   |   |   |   |   |   |   |   |   |
| 3 | Assignment 3 | Lec 8-13 | Case Exam | 90 | 0.15 | 13.5 |   |   | 95 |   |
| 4 | Assignment 4 | Lec 14-15 | Presentation Paper  | 90 | 0.08 | 7.2 |   |   |   | 88 |
| 5 | Mid Exam | Lec 1-7 | Essays questions | 86 | 0.3 | 25.8 | 44 | 44 |   |   |
| 6 | Final Exam | Lec 9-14 | Case Exam | 86 | 0.33 | 28.38 |   |   | 45 | 45 |
|   | Final Score |   |   |   |   | 90.18 | 250.00 | 250.00 | 150.00 | 150.00 |
|   | Grade |   |   |   |   | A | 224.00 | 224.00 | 140.00 | 133.00 |
|   | CLO Achievement |   |   |   |   |   | 89.60 | 89.60 | 93.33 | 88.67 |
|   | Minimum CLO Aciement 85 % |   |   |   |   |   | ✔ | ✔ | ✔ | ✔ |

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| ECTS CALCULATIONWITH PRAKTIKUM |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
| Meeting | Class credits | Face-to-face | Structured Officers | Self-Study | Practicum | Test | Total |
| 1 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 2 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 3 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 4 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 5 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 6 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 7 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 8 | 3 | UTS | 150 | 150 |
| 9 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 10 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 11 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 12 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 13 | 3 | 50 | 60 | 60 | 0 |   | 510 |
| 14 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 15 | 2 | 50 | 60 | 60 | 170 |   | 510 |
| 16 | 3 | UAS | 150 | 150 |
| Total  | 1750 | 2100 | 2100 | 1190 | 300 | 7440 |
|   |   |   |   |   | Total minutes |   | 7440 |
|   |   |   |   |   | Total Hours | divided by 60 | 124 |
|   |   |   |   |   | Total ECTS | divided by 25 | 4.96 |