





UNDERGRADUATE PROGRAM OF INFORMATION SYSTEMS

CURRICULUM 2023

| | | Enterprise Systems Engineer | | Data Engineer & Scientist | | Agile IT Specialist | | IT Infrastructure & Security Engineer | | | |
|--|------------|---|---|---|--|--|------------------------------------|---|--|-----------------------------|--|
| | |  | |  | |  | |  | | | |
| | | Supply Chain Management | | Knowledge Graphs | | Prescriptive Modeling and Analytics | | IT Audit and Governance | | Machine Learning Technology | |
| | | Customer Relationship Management | | Natural Language Processing | | Soft Computing | | Change Management | | IT Security Governance | |
| | | Model Based Decisioning System | | Data-intensive System | | Cognitive System Modeling | | IT Investment Management | | Digital Forensics | |
| | | 3 | | 3 | | 3 | | 3 | | 3 | |
| Semester VIII | 6 credits | | | | | Final Year Project | | | | | |
| MBKM #2: Internship/Entrepreneur/Community Service Program/Student Exchange/Lecturer Assistantship | | | | | | | | | | | |
| Semester VII | 20 credits | Technopreneurship | English | Indonesian | Pancasila | IS Capstone | Elective Course 3 | Elective Course 4 | Pra Ta | | |
| MBKM #1: Independent Study/Internship/Research/Independent Projects | | | | | | | | | | | |
| Semester VI | 20 credits | Technology Applications and Digital Transformation | Civics | Religion | Elective Course 1 | Elective Course 2 | Enrichment Course | System Development and Operation | | | |
| Semester V | 21 credits | IT Organization Evaluation and Monitoring | Software Design and Development | | Emerging Technology | IT Service Management | IS/IT Strategic Planning | Information Asset Protection | | | |
| Semester IV | 21 credits | User Experience Design | Data Lakehouse | | Web Programming | Ethics in IT | Predictive Modelling and Analytics | IT Risk Management | Computer Network Design and Management | | |
| Semester III | 20 credits | Enterprise System | Database Administration | | Operation Research | Data and Diagnostic Analytics | Agile Project Management | Algorithm and Data Structure | | | |
| Semester II | 18 credits | Business Process Management | Database Systems | | Statistics and Probabilistics for Information Technology | | Software Requirement Engineering | Basic Programming | | | |
| Semester I | 18 credits | Business Functional and Organization | Intro. to Intelligence Electrical & Informatics | Mathematics | Discrete Logic and Structure | Introduction to Economy & Business | Design Thinking | IT Infrastructure | | | |
| total | | solid credits | | IS Program Courses | | up diagonal credits | | Univ. & Faculty Courses | | down diagonal credits | |
| 144 credits | | | | | | | | Nasional Courses | | | |
| Learning Strategy | | | | | | | | | | | |
| Comprehensive skills testing. | | | | | | | | | | | |
| Exploring capabilities for optimizing IT solutions. | | | | | | | | | | | |
| Training to enhance IT solution-providing skills. | | | | | | | | | | | |
| Placing fundamental management skills and basic IT knowledge in context. | | | | | | | | | | | |

Courses with **red** font will be delivered by other unit (TPB/MKDU/other department) in ITS