| **1.Course Identity** |
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| **Course Name/Block** | Technology and Innovation Management |
| **Faculty**  | Business and Economics | **Study Program** | Management |
| **Code** | SEM221 | **Credits** | 3 |
| **Group** | Study Program  | **Enrollment** | Compulsory |
| **Semester(s) in which the course is taught** | 2 | **Availability** | Limited within Study Program |
| **Learning Method** | Classroom Learning | **Media** | Blended |
| **Category** | Supporting Course (MKPD) | **Prerequisites** | Management Science and Art |

| **2. Course Description** |
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| Innovation and Technology Management (ITM) is an issue encountered by all companies in the present time. Various changes in the business environment, including new technology and innovation, have forced industries and companies to find a new way to compete and survive. To deal with such changes, the business sector must find a way to manage innovation and technology. Therefore, the ITM course aims to provide students with knowledge regarding the changes and how to manage and develop innovation and technology strategies to win the competition. Once this course has been completed, students expectedly have a comprehensive understanding of how an organization should design, manage, and formulate innovation and technology strategies. |

| **3.Learning Outcomes (CPL)** |
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| **CPL Code** | **CPL** | **CPMK Code** | **CPMK** |
| **S1** | Being devoted to God Almighty and having a good moral character | **CPMK****01** | Being able to identify and formulate innovation strategies within the scope of information technology |
| **S3** | Internalizing values, norms, and ethics that prioritize integrity, honesty, responsibility, and trust in carrying out the profession |
| **KU3** | Having the ability to identify managerial problems and organizational functions at the operational level, and take appropriate measures according to the developed alternatives, by implementing local wisdom-rooted entrepreneurial principles |
| **KU4** | Being able to make the right managerial decisions in various types of organizations at the operational level, according to data and information analysis on organizational functions |
| **S6** | Being able to enjoin right and forbid wrong to improve the quality of life of the society, nation and state as well as civilization  | **CPMK****02** | Understanding management for innovation processes  |
| PP3 | Mastering at least one international language |
| KK4 | Having the ability to think "out of the box" in implementing the value ​​of perfection in accordance with the Islamic treatises by approaching and reasoning to solve problems based on management science |
| **KU3** | Having the ability to identify managerial problems and organizational functions at the operational level, and take appropriate measures according to the developed alternatives, by implementing local wisdom-rooted entrepreneurial principles | **CPMK****03** | Being able to understand the roles of technology to support management and innovations |
| **KU4** | Being able to make the right managerial decisions in various types of organizations at the operational level, according to data and information analysis on organizational functions |
| **KU5** | Studying the implications of the development or implementation of science, technology, or arts according to their expertise based on rules, procedures, and scientific codes of ethics to produce solutions, ideas, design, or criticisms as well as to write a scientific description based on the study results in the form of a thesis or final project report |
| **KK3** | Being able to recognize opportunity quickly and be brave to take risks responsibly to offer optimum benefits | **CPMK****04** | Being able to identify the capability and science management of an enterprise to support innovation |
| **KK5** | Having the ability to think visionary and to be open, communicative, creative, responsive to change and responsive to advances in science and technology within the scope of management science |

| **4.Learning Materials and Main References** |
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| **Learning Materials** | 1. Management of Technology and Innovation: An Overview (WB Ch. 1)
2. Strategy Process and the Management of Technology and Innovation (WB Ch. 2)
3. Innovation: Planning & Sources of Innovation (WB Ch. 3 & S Ch. 2)
4. Choosing Innovation Projects (S Ch. 7)
5. Organizing for Innovation (S Ch. 10)
6. Internal Innovation: Implementation (WB Ch. 4)
7. Innovation: Evaluation and Control (WB Ch. 5)
8. Obtaining Technology: Planning (WB Ch. 6)
9. Obtaining Technology: Implementation (WB Ch. 7)
10. Collaboration Strategies (S Ch. 8)
11. Obtaining Technology: Evaluation and Control (WB Ch. 8)
12. Defining the Organization’s Strategic Direction (S Ch. 6)
13. Building Capabilities for MTI Success (WB Ch. 9)
14. Organizational Learning and Knowledge Management (WB Ch. 10)
 |
| **Main References** | * White, Margaret A. & Bruton, Garry D. 2010. *The Management of Technology and Innovation: A Strategic Approach.* South-Western Cengage Learning. Ohio, USA **(Code: WB)**
* Schilling, Melissa A. Strategic Management of Technological Innovation 5th Edition. McGrawHill Education **(Code: S)**
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| **Date: 10 February 2021** | **Date: 04 February 2021** | **Date: 01 February 2021** |
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| Validated by Dean | Examined by Head of Study Program | Prepared by: |
|  |  |  |
| Prof. Jaka Sriyana, SE., M.Si., Ph.D | Anjar Priyono, SE., M.Si., Ph.D | Dra. Suhartini, M.Si |

