PORTOFOLIO MATA KULIAH

	INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS) **FAKULTAS TEKNOLOGI INDUSTRI DAN REKAYASA SISTEM** **DEPARTEMEN TEKNIK SISTEM DAN INDUSTRI**				
Mata Kuliah (MK)	**Kode**	**RMK**	**Bobot (sks)**	**Semester**	**Waktu Review**
Manajemen Pengetahuan *Knowledge Management*	TI184974	PSMI	3	7 - Pilihan	September 2020
Otorisasi / Pengesahan	**Dosen MK / Koordinator MK**		**Ketua RMK**	**Kadep / Kaprodi**	
	Bambang Syairudin		Lantip Trisunarno	Nurhadi Siswanto	
Team Teaching	Bambang Syairudin				

Capaian Pembelajaran Lulusan (CPL) sesuai dengan IABEE / *Program Learning Outcomes (PLO) based on IABEE criteria*

Kode / *code*	Deskripsi CPL / *PLO description*
(a)	Kemampuan menerapkan pengetahuan matematika, ilmu pengetahuan alam dan/atau material, teknologi informasi dan keteknikan untuk mendapatkan pemahaman menyeluruh tentang prinsip-prinsip keteknikan. *The ability to apply knowledge of mathematics, natural sciences and/or materials, information technology, and engineering to obtain a comprehensive understanding of engineering principles.*
(b)	Kemampuan mendesain komponen, system dan/atau proses untuk memenuhi kebutuhan yang diharapkan didalam batasan-batasan realistis, misalnya hukum, ekonomi, lingkungan, sosial, politik, kesehatan dan keselamatan, keberlanjutan serta untuk mengenali dan/atau memanfaatkan potensi sumber daya lokal dan nasional dengan wawasan global. *The ability to design components, systems, and/or processes to meet expected needs within realistic constraints, such as laws, economics, environment, social, political, health and safety, sustainability, and to recognize and/or utilize the potential of local and national resources with global insight.*
(c)	Kemampuan mendesain dan melaksanakan eksperimen laboratorium dan/atau lapangan serta menganalisis dan mengartikan data untuk memperkuat penilaian teknik. *The ability to design and conduct laboratory and/or field experiments and to analyze and interpret data to strengthen engineering assessments.*
(d)	Kemampuan mengidentifikasi, merumuskan, menganalisis dan menyelesaikan permasalahan teknik. *The ability to identify, formulate, analyze, and solve engineering problems.*
(e)	Kemampuan menerapkan metode, keterampilan dan piranti teknik yang modern yang diperlukan untuk praktek keteknikan *The ability to apply modern engineering methods, skills, and tools required for engineering practice.*
(f)	Kemampuan berkomunikasi secara efektif baik lisan maupun tulisan *The ability to communicate effectively both orally and in writing.*
(g)	Kemampuan merencanakan, menyelesaikan dan mengevaluasi tugas didalam batasan-batasan yang ada. *The ability to plan, execute, and evaluate tasks within existing constraints.*
(h)	Kemampuan bekerja dalam tim lintas disiplin dan lintas budaya. *The ability to work in interdisciplinary and cross-cultural teams.*

(i)	Kemampuan untuk bertanggung jawab kepada masyarakat dan mematuhi etika profesi dalam menyelesaikan permasalahan teknik. *The ability to be accountable to society and adhere to professional ethics in addressing engineering problems.*
(j)	Kemampuan memahami kebutuhan akan pembelajaran sepanjang hayat, termasuk akses terhadap pengetahuan terkait isu-isuke kinian yang relevan. *The ability to understand the need for lifelong learning, including access to knowledge related to relevant contemporary issues.*

RENCANA PEMBELAJARAN SEMESTER (RPS) – *COURSE PLANNING*

	INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS) **FAKULTAS TEKNOLOGI INDUSTRI DAN REKAYASA** **SISTEMDEPARTEMEN TEKNIK SISTEM DAN INDUSTRI**					
Mata Kuliah (MK)	**Kode**	**RMK**	**Bobot (sks)**	**Semester**	**Waktu Review**
Manajemen Pengetahuan *Knowledge Management*	TI184974	PSMI	3	7 - Pilihan	September 2020

1. Deskripsi Mata Kuliah (*Course Description*)

Di dalam perkuliahan Manajemen Pengetahuan (*Knowledge management*) ini, mahasiswa akan diarahkan untuk memahami konsepsi dan metodologi manajemen pengetahuan yang meliputi siklus manajemen pengetahuan, model-model manajemen pengetahuan, penangkapan & kodifikasi pengetahuan, komunitas praktis dan berbagi pengetahuan, aplikasi pengetahuan, peran budaya organisasi, menuju masyarakat pengetahuan yang didukung secara digital, pengetahuan di dalam organisasi, bentuk-bentuk organisasi untuk pengayaan pengetahuan, pekerja pengetahuan di era digital, dan strategi-strategi untuk manajemen pengetahuan guna meraih keunggulan bersaing perusahaan.

In this Knowledge Management course, students will be directed to understand the conception and methodology of knowledge management which includes the knowledge management cycle, knowledge management models, knowledge capture & codification, knowledge sharing and communities of practice; knowledge application; the role of organization culture; towards a digitally enabled knowledge society; knowledge in organisations; organisational forms to leverage knowledge; knowledge work(ers) in the digital age; and strategies for managing knowledge in order to achieve the company's competitive advantage.

2. Capaian Pembelajaran Mata Kuliah (CPMK) / *Course Learning Outcomes (CLO)*

Dengan berakhirnya kuliah, diharapkan mahasiswa:

Kode	Uraian CPMK
CPMK 1	Mahasiswa mampu mendeskripsikan beberapa konsep yang berkaitan dengan Knowledge Management dalam teori dan praktek.
CPMK 2	Mahasiswa mampu menjelaskan hubungan model KM dengan kerangka KM dan siklus KM
CPMK 3	Mahasiswa mampu memahami kontribusi budaya organisasi untuk inovasi dan keberhasilan organisasi.
CPMK 4	Mahasiswa mampu memahami pengetahuan sebagai sumber untuk menciptakan kesejahteraan dalam rangka menuju masyarakat pengetahuan yang didukung secara digital.
CPMK 5	Mahasiswa mampu mendeskripsikan bentuk organisasi untuk meningkatkan pengetahuan
CPMK 6	Mahasiswa mampu mendeskripsikan tentang Strategi Manajemen Pengetahuan

By the end of this course, students will be able to:

Code	*Description of CLO*
CLO 1	*Students able to describe the several concepts related to Knowledge Management in Theory & Practice.*
CLO 2	*Students able to explain the relation KM models with KM frameworks and the KM cycle*

Code	Description of CLO
CLO 3	*Students able to understand the Contribution of organizational culture to organizational innovation andSuccess.*
CLO 4	*Students able to understand that Knowledge as A Resource for Creating Wealth towards a Digitally Enabled Knowledge Society.*
CLO 5	*Students able to describe organisational forms to leverage knowledge*
CLO 6	*Students able to describe about Strategies for Managing Knowledge*

3. **CPL yang dibebankan kepada Mata Kuliah (Matriks CPL-CPMK / *PLO-CLO Matrix*)**

CPMK	CPL Program Studi berbasis IABEE / *CLO based on IABEE*									
	(a)	**(b)**	**(c)**	**(d)**	**(e)**	**(f)**	**(g)**	**(h)**	**(i)**	**(j)**
CPMK 1	***	**								
CPMK 2	***	***	***							
CPMK 3	*	**								
CPMK 4	***	**	***							
CPMK 5	***	**	***							
CPMK 6	***	**	***							

4. **Mata Kuliah Prasyarat / *Prerequisites***

-

5. **Referensi / *References***
   a. **Referensi utama / Main reference**
      1. Dalkir, K. 2005. Knowledge management in theory and practice. Amsterdam/Boston: Elsevier/Butterworth. Heinemann.
      2. North, K.; Kumta, G. 2018. Knowledge Management: Value Creation Through Organizational Learning. Second Edition. Switzerland: Springer.
   b. **Referensi Pendukung / Additional references**
      1. Tiwana, A. 2000. The knowledge management toolkit: Practical Techniques for Buildinga Knowledge Management System. Upper Saddle River, NJ: Prentice Hall.

6. Jadwal Perkuliahan / *Learning Schedule*

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
1	CPMK 1	Introduction to Knowledge Management in Theory & Practice.	1. Use a framework and a clear language for knowledge management concepts. 2. Define key knowledge management concepts such as intellectual capital, organizational learning and memory, knowledge taxonomy, and communities of practice using concept analysis. 3. Provide an overview of the history of knowledge management and identify	Students able to describe the several concepts related to Knowledge Management in Theory & Practice.	SGD DL	(1) Dalkir, K. – Chapter 1	Written asessment (Mid term test)

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			key milestones. 4. Describe the key roles and responsibilities required for knowledge management applications.				
2	CPMK 1	The Knowledge Management Cycle.	1. Describe how valuable individual, group, and organizational knowledge is captured, created, codified, shared, accessed, applied, and reused throughout the knowledge management cycle. 2. Compare and contrast major KM life-cycle models,	Students able to to integrate KM cycle by combining the advantages of other KM life-cycle models.	SGD DL	(1) Dalkir, K. – Chapter 2	Exercise Written asessment (Mid term test)

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			including the Zack, Bukowitz and Williams, McElroy, and Wiig life-cycle models. 3. Define the key steps in each process of the KM cycle and provide concrete examples of each. 4. Identify the major challenges and benefits of each phase of the KM cycle. 5. Describe how the integrated KM cycle combines the advantages of other KM life-cycle models.				

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
3	CPMK 2	Knowledge Management Models.	1. Understand the key tenets of the major knowledge management theoretical models in use today. 2. Link the KM frameworks to key KM concepts and the major phases of the KM cycle. 3. Explain the complex adaptive system model of KM and how it addresses the subjective and dynamic nature of content to be managed.	Students able to explain the relation KM models with KM frameworks and the KM cycle.	SGD DL	(1) Dalkir, K. – Chapter 3	Exercise Written asessment (Mid term test)
4	CPMK 2	Knowledge Capture & Codification.	1. Become familiar with the basic terminology	Students able to apply the major techniques related to	SGD DL	(1) Dalkir, K. – Chapter 4	Exercise Written asessment (Mid term test)

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			and concepts related to knowledge capture and codification. 2. Describe the major techniques used to elicit tacit knowledge from subject matter experts. 3. Define the major roles and responsibilities that come into play during the knowledge capture and codification phase. 4. Outline the general taxonomic approaches used in classifying knowledge	knowledge capture and codification.			

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			that has been captured. 5. Analyze the type of knowledge to be captured and codified, select the best approach to use, and discuss its advantages and shortcomings for a given knowledge elicitation application.				
5	CPMK 2	Knowledge sharing and Communities of Practice.	1. Describe the key components of a community of practice. 2. Outline the major phases in the life cycle of a community and the corresponding	Students able to describe the Knowledge sharing and Communities of Practice.	SGD DL	(1) Dalkir, K. – Chapter 5	Exercise Written asessment (Mid term test)

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			information and knowledge management needs for each. 3. Define the major roles and responsibilities in a community of practice, with particular emphasis on the integration of library and information professionals' skills. 4. Analyze the flow of knowledge in a community of practice using appropriate tools and techniques to identify enablers and obstacles to knowledge sharing.				

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			5. Discuss how communities can be linked to organizational memory in order to foster organizational learning and innovation.				
6	CPMK 2	Knowledge Application	1. Understand how user and task modeling approaches can help promote effective knowledge use at the individual, group, and organizational level. 2. Describe how an organizational knowledge management architecture is designed.	Students able to understand about knowledge application.	SGD DL	(1) Dalkir, K. – Chapter 6	Exercise Written asessment (Mid term test)

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			3. Define organizational learning and describe the links between individual and organizational learning. 4. Compare and contrast learning and understanding with internalization of knowledge. 5. List the different knowledge support technologies that can help users put knowledge into action.				
7	CPMK 1 & 2	Project Presentation #1					Presentation
8		Mid Term Exam					Written asessment
9	CPMK 3	The Role of Organization Culture.	1. Define organizational culture.	Students able to understand the	SGD DL	(1) Dalkir, K. – Chapter 7	Exercise

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			2. Understand the relation between organizational culture and the business context. How does culture contribute to organizational innovation and success? 3. Appreciate the contribution of organizational culture to the management of change; understand the analytic elements of organizational culture, such as different types of cultures and organizational maturity models. 4. Describe how organizational	Contribution of organizational culture to organizational innovation and Success.			

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			culture intersects with knowledge management. 5. Discuss the key organizational culture enablers and the chief obstacles to effective knowledge sharing and KM. 6. List the major phases involved in initiating organizational change and review how the organizational culture would have to evolve so that KM goals can be attained. 7. Discuss to what extent organizational				

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			culture can be managed.				
10	CPMK 4	Towards a Digitally Enabled Knowledge Society	1. Understanding of value creation in the digitally enabled knowledge economy. 2. Explain the challenges and approaches to managing knowledge intensive organisations. 3. Assess the fitness of an organisation for knowledge based competition. 4. Describe how to run a knowledge café.	Students able to understand that Knowledge as A Resource for Creating Wealth towards a Digitally Enabled Knowledge Society.	SGD DL	(2) North, K.; Kumta, G. - Chapter 1	Exercise
11	CPMK 4	Knowledge in Organisations	1. Describe the difference between information,	Students able to explain about approaches to structuring	SGD DL	(2) North, K.; Kumta, G. - Chapter 2	Exercise

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			knowledge and competence. 2. Apply the SECI-model of explicit/tacit knowledge conversion to real organisations. 3. Explain competitive advantage by the resource based view using the VRIN-concept and the construct of dynamic capabilities. 4. Learn approaches to structuring organisational knowledge and assessing the value of knowledge resources;	organisational knowledge and assessing the value of knowledge resources			

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			5. Describe how to run an idea competition.				
12	CPMK 5	Organisational Forms to Leverage Knowledge	1. Describe what are organisational challenges and approaches to find a balance between stability/renewal and competition/collaboration. 2. Apply game theory to knowledge sharing behaviour. 3. Explain the strengths and weaknesses of different organisational forms regarding knowledge flows 4. Evaluate and determine an	Students able to describe organisational forms to leverage knowledge	SGD DL	(2) North, K.; Kumta, G. - Chapter 3	Exercise

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			appropriate organisational form for a specific business setting 5. Describe how to run an After Action Review.				
13	CPMK 6	Knowledge Work(ers) in the Digital Age	1. Explain about the characteristics of knowledge workers and their evolving contractual relationships in the digital age; 2. Explain the six major factors determining knowledge worker productivity according to Drucker; 3. Explain the roles and tasks of the five groups of	Students able to explain about Knowledge Work(ers) in the Digital Age.	SGD DL Responsi	(2) North, K.; Kumta, G. - Chapter 4	Exercise

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			actors of the knowledge firm; 4. Explain about how to motivate knowledge workers 5. Evaluate and develop competencies of employees. 6. Explain about what makes a CoP successful or fail. 7. Explain about how to develop a competence matrix for a specific unit.				
14	CPMK 6	Strategies for Managing Knowledge	1. Describe about guiding principles for a successful KM strategy; 2. Describe about how to develop a KM strategy guided	Students able to describe about Strategies for Managing Knowledge		(2) North, K.; Kumta, G. - Chapter 5	Exercise

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
			by five questions; 3. Describe about how to develop a «Best Practice» process; 4. Describe about the differences of KM strategies for process and project oriented organisations; 5. Describe about how to run a knowledge market.				
15	CPMK 3,4,5,6	Project Presentation #2					Presentation
16	CPMK 3,4,5,6	Project Presentation #2					Presentation

7. Bentuk assessment dan keterkaitannya dengan CPMK (*Assessment Method and CLO*)

No.	CPMK	Bobot CPMK	Bentuk Assessment	Bobot setiap assessment
1	CPMK 1	15%	Exercise	3%
			Project Presentation #1	9%
			Mid Term Exam	15%
2	CPMK 2	15%	Exercise	3%
			Project Presentation #1	9%
			Mid Term Exam	15%
3	CPMK 3	15%	Exercise	3%
			Project Presentation #2	8,5%
4	CPMK 4	15%	Exercise	3%
			Project Presentation #2	8,5%
5	CPMK 5	20%	Exercise	3%
			Project Presentation #2	8,5%
6	CPMK 6	20%	Exercise	3%
			Project Presentation #2	8,5%