


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
Manajemen Resiko Korporat <i>Corporate Risk Management</i>	TI184979	PSMI	3	7 - Pilihan	Agustus 2020
Otorisasi / Pengesahan	Dosen MK / Koordinator MK		Ketua RMK	Kadep / Kaprodi	
	Naning Aranti Wessiani		Lantip Trisunarno	Nurhadi Siswanto	
Team Teaching	Patdono Suwignjo, Naning Aranti Wessiani				

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

Kode / code	Deskripsi CPL / PLO description
(a)	<p>Kemampuan menerapkan pengetahuan matematika, ilmu pengetahuan alam dan/atau material, teknologi informasi dan keteknikan untuk mendapatkan pemahaman menyeluruh tentang prinsip-prinsip keteknikan.</p> <p><i>The ability to apply knowledge of mathematics, natural sciences and/or materials, information technology, and engineering to obtain a comprehensive understanding of engineering principles.</i></p>
(b)	<p>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.</p> <p><i>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.</i></p>
(c)	<p>Kemampuan mendesain dan melaksanakan eksperimen laboratorium dan/atau lapangan serta menganalisis dan mengartikan data untuk memperkuat penilaian teknik.</p> <p><i>The ability to design and conduct laboratory and/or field experiments and to analyze and interpret data to strengthen engineering assessments.</i></p>
(d)	<p>Kemampuan mengidentifikasi, merumuskan, menganalisis dan menyelesaikan permasalahan teknik.</p> <p><i>The ability to identify, formulate, analyze, and solve engineering problems.</i></p>
(e)	<p>Kemampuan menerapkan metode, keterampilan dan piranti teknik yang modern yang diperlukan untuk praktek keteknikan</p> <p><i>The ability to apply modern engineering methods, skills, and tools required for engineering practice.</i></p>
(f)	<p>Kemampuan berkomunikasi secara efektif baik lisan maupun tulisan</p> <p><i>The ability to communicate effectively both orally and in writing.</i></p>
(g)	<p>Kemampuan merencanakan, menyelesaikan dan mengevaluasi tugas didalam batasan-batasan yang ada.</p>

	<i>The ability to plan, execute, and evaluate tasks within existing constraints.</i>
(h)	Kemampuan bekerja dalam tim lintas disiplin dan lintas budaya. <i>The ability to work in interdisciplinary and cross-cultural teams.</i>
(i)	Kemampuan untuk bertanggung jawab kepada masyarakat dan mematuhi etika profesi dalam menyelesaikan permasalahan teknik. <i>The ability to be accountable to society and adhere to professional ethics in addressing engineering problems.</i>
(j)	Kemampuan memahami kebutuhan akan pembelajaran sepanjang hayat, termasuk akses terhadap pengetahuan terkait isu-isu kekinian yang relevan. <i>The ability to understand the need for lifelong learning, including access to knowledge related to relevant contemporary issues.</i>

RENCANA PEMBELAJARAN SEMESTER (RPS) – COURSE PLANNING

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1. Deskripsi Mata Kuliah (*Course Description*)

Manajemen Risiko merupakan salah satu mata kuliah pilihan yang bertujuan membekali mahasiswa dengan pengetahuan tentang manajemen risiko yang penting bagi perusahaan. Topik pembelajaran mencakup standar risiko, kerangka kerja, dan proses risiko yang meliputi identifikasi, penilaian, dan penentuan prioritas risiko. Mahasiswa juga akan belajar menggunakan beberapa pendekatan kuantitatif manajemen risiko seperti *Strategic Objective at Risk (SOAR)*, *Failure Mode Effect and Analysis (FMEA)*, *Fault Tree Analysis (FTA)*, *Value at Risk (VAR)*, dan Simulasi Monte Carlo di dalam melakukan identifikasi dan penilaian risiko.

Risk Management is the election course that aims to provide the students with the knowledge of the important risk management in corporate. The objects of study cover risk standards, framework, and processes that include risk identification, assessment, and prioritizing. Students will also learn to use several risk management quantitative tools such as Strategic Objective at Risk (SOAR), Failure Mode Effect and Analysis (FMEA), Fault Tree Analysis (FTA), Value at Risk (VAR), and Monte Carlo Simulation.

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

Dengan berakhirnya kuliah, diharapkan mahasiswa:

Kode	Uraian CPMK
CPMK 1	Mahasiswa mampu memahami konsep risiko dan aspek-aspek penting dari manajemen risiko perusahaan
CPMK 2	Mahasiswa mampu memahami dan menggunakan metode kuantitatif manajemen risiko untuk melakukan identifikasi, penilaian, dan penentuan prioritas mitigasi risiko
CPMK 3	Mahasiswa mampu memahami dan merancang profil risiko, strategi mitigasi dan audit manajemen risiko
CPMK 4	Mahasiswa mampu mengembangkan pemikiran kritis, analitis, dan berkomunikasi secara efektif dengan melakukan analisis studi kasus

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

Code	Description of CLO
CLO 1	<i>Students are able to understand the risk concept and the important aspects of corporate risk management</i>
CLO 2	<i>Students are able to understand and use quantitative methods to identify and assess risks</i>
CLO 3	<i>Students are able to understand and design risk profile, mitigation strategies and risk management audit</i>
CLO 4	<i>Students are able to develop their critical, analytical thinking, and communication skill by conducting case study analysis</i>

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						***	***			

4. Mata Kuliah Prasyarat / Prerequisites

- Statistik Industri I / *Industrial Statistics I*

5. Referensi / References

- Dempster, M.A.H. 2002. Risk Management: Value at Risk and Beyond. 1st Edition. Cambridge University Press.
- McDermott, Robin E, Raymond J. Mikulak, and Michael E. Beauregard. 2009. The Basics of FMEA. 2nd Edition. Taylor & Francis Group.
- Merna, Tony and Faisal Al-Thani, 2008. Corporate Risk Management. 2nd Edition. John Wiley & Sons.
- Monahan, Gregory, 2008. Enterprise Risk Management: A Methodology for Achieving Strategic Objective. 1st Edition. John Wiley & Sons.
- Olson, David L. and Desheng Wu. 2020. Enterprise Risk Management Models. 3rd Edition. Springer

6. Jadwal Perkuliahan / Learning Schedule

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asesment
1	CPMK 1	Introduction to Risk Management	<ol style="list-style-type: none"> The scope of Corporate Risk Management The nature of risk 	<ol style="list-style-type: none"> Students able to understand the role of risk management in the corporate Students able to describe the nature of risk 	SGD DL	Textbook	Written assesment
2	CPMK 1	Type of Risks	<ol style="list-style-type: none"> Risk characteristics Sources of risk 	Students able to understand and define the characteristics and sources of risk	SGD DL	Textbook	Written assesment
3	CPMK 1	Framework & Risk Standards #1: AS/NZS & ISO	<ol style="list-style-type: none"> AS/NZS ISO 	Students able to understand and define the standards and the procedures that involved in AS/NSZ and ISO	SGD DL CI	Textbook ISO Modul (online)	Written assesment
4	CPMK 1	Framework & Risk Standards #2: COSO ERM	COSO ERM	Students able to understand and define the standards and the procedures that	SGD DL CI	Textbook COSO Modul (online)	Written assesment

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asesment
				involved in COSO ERM			
5	CPMK 2	Risk Approach & Method: Strategic Objective at Risk (SOAR) #1	<ol style="list-style-type: none"> 1. SOAR concept and methodology 2. Set & Observe stage 	<ol style="list-style-type: none"> 1. Students able to understand and use SOAR methodology 2. Students able to understand and use Set and Observe stage in SOAR methodology 	SGD DL CI	Textbook	Written asesment Presentation
6	CPMK 2	Risk Approach & Method: Strategic Objective at Risk (SOAR) #2	Analyze and React stage	Students able to understand and use Analyze and React stage in SOAR methodology	SGD DL CI	Textbook	Written asesment Presentation
7	CPMK 2	Risk Approach & Method: Fault Tree Analysis (FTA)	<ol style="list-style-type: none"> 1. FTA concept 2. FTA procedure 	Students able to understand and use FTA methodology for risk identification	SGD DL CI	Textbook	Written asesment Presentation
8		Mid Term Exam					Written asesment
9	CPMK 2	Risk Approach & Method: Failure Mode Effect Analysis (FMEA) #1	FMEA concept	Students able to understand and define the use of FMEA in the risk management scope	SGD DL CI	Textbook	Written asesment Presentation

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asessment
10	CPMK 2	Risk Approach & Method: Failure Mode Effect Analysis (FMEA) #2	FMEA procedure	Students able to understand and use the FMEA procedure for developing risk management system	SGD DL CI	Textbook	Written asesment Presentation
11	CPMK 2	Risk Approach & Method: Value at Risk (VAR) and Monte Carlo Simulation	1. Value at Risk concept 2. Monte Carlo Simulation concept	Students able to understand and use VAR and Monte Carlo Simulation in the risk management context	SGD DL CI	Textbook	Written asesment Presentation
12	CPMK 3	Risk Profile and Mitigation Strategies	1. Methods for risk profile 2. Risk mitigation strategies	Students able to understand and design risk profile and mitigation strategies based on risk assessment	SGD DL CI	Textbook	Written asesment
13	CPMK 3	Risk Management Audit	1. The concept of risk management audit 2. The example of risk management audit	Students able to understand and design risk management audit based on risk profile	SGD DL CI	Textbook	Written asesment

Minggu	CPMK	Topik	Sub Topik (pustaka)	Capaian pembelajaran (sub CPMK)	Metode Pembelajaran	Sarana Pembelajaran	Bentuk Asesment
14	CPMK 4	Special Topic of Risk Management	1. Guest Lecture 2. Task #1: Journal Review	Students able to understand and describe the implementation of risk management in a specific area by conducting journal review and guest lecture session	SGD DL CI	Textbook Guest Lecture	Written asesment Presentation
15	CPMK 4	Risk Management Case Study	Task #2: Case Study Analysis	Students able to understand and describe the implementation of risk management in a specific area by conducting case study analysis	SGD DL CI	Textbook Guest Lecture	Written asesment Presentation
16		Final Exam					Written asesment

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

No.	CPMK	Bobot CPMK	Bentuk Assessment	Bobot setiap assessment
1	CPMK 1	15%	Written Assessment	10%
2	CPMK 2	50%	Written Assessment	40%
			Presentation	10%
3	CPMK 3	20%	Written Assessment	20%
4	CPMK 4	25%	Presentation	25%