

**GARIS-GARIS BESAR PROGRAM PEMBELAJARAN (GBPP)**  
**PROGRAM MAGISTER MANAJEMEN**  
**KEKHUSUSAN PORT, SHIPPING AND LOGISTIC MANAGEMENT**

MATA KULIAH : **PORT MANAGEMENT INFORMATION AND TECHNOLOGY (Manajemen Teknologi dan Informasi Pelabuhan)**  
 KODE MATA KULIAH : PMB \*\*\*  
 BOBOT SKS : 2-0  
 ALOKASI WAKTU : 14 Sesi (@ 100 menit / sesi)  
 PENGAJAR : 1. Prof. Dr. Ir. Kudang Boro Seminar, MSc(CS) **[KBS] (Koordinator)**  
 2. Dr. Ir. Deni Achmad Soeboer, M.Si **[DAS]**

**Deskripsi Mata Kuliah:**

Mata kuliah ini bertujuan memberikan pengetahuan tentang sistem informasi dan utilisasinya untuk pengelolaan pelabuhan, yang meliputi: infrastruktur teknologi *hardware, netware, software* dan *dataware*, DBMS dan *Datawarehousing*, sistem informasi pelabuhan (*terminal container, Cargo, passenger, bulk*), *Port Community System and (National) Single Window System, e-commerce & e-payment, analisis pengendalian sistem informasi (bussines goal link to IT goal)*, sistem monitoring, DSS & DGSS dan GIS.

**Evaluasi:**

1. Tugas Kelompok & Invidu (Paper)
2. Presentasi + Diskusi Project

**Satuan Acara Perkuliahan**

No.	WEEKS/ DATE	MAIN TOPICS/ Sub Topic	LECTURER	NOTE (minute)
			KBS	
1	I & II	<ul style="list-style-type: none"> <li>• Introduction to Information Systems: definition, model, &amp; types</li> <li>• PCS, DSS/GDSS, ERP</li> </ul>	KBS	
2	III & IV	<ol style="list-style-type: none"> <li>1. Hardware &amp; netware technologies</li> <li>2. Internet, extranet, intranet &amp; web technologies</li> <li>3. E-Commerce &amp; SCM, CRM</li> </ol>	KBS	
3	V & VI	<ol style="list-style-type: none"> <li>1. Database &amp; datawarehousing technologies</li> </ol>	KBS	

No.	WEEKS/ DATE	MAIN TOPICS/ Sub Topic	LECTURER	NOTE (minute)
			KBS	
		2. Data Management & Security & DRC (Data Recovery Center)		
4	VII & VIII	1. Geographical Information Systems 2. Spatial Database	KBS	
5		<b>MID TEST</b>		
6	IX & X	1. Port Information System 2. Port Community System 3. Port Monitoring & Surveillance a. Vessel & Berth Planning module b. General cargo module c. Maintenance & property module d. Miscellaneous Services Module e. Auto gate System	DAS	
7	XI-XII	1. Terminal Information Systems (Container, Cargo, Passenger, Bulk) a. Berth Planning Module b. Ship Planning module c. Discharge & loading Module d. Yard Planning Module e. Yard Operation & Monitoring Module f. Receiving & Delivery Module 2. (National) Single Window System	DAS	
8	XIII & XIV	1. Billing Systems & E-Payment a. CFS Module b. Container Depo Module c. Real-time Data System 2. Radar System & GPS 3. Ship Operating & Scheduling System 4. Passenger system Terminal 5. Information System Control Analysis (Business Goal & IT Goal)	DAS	

No.	WEEKS/ DATE	MAIN TOPICS/ Sub Topic	LECTURER	NOTE (minute)
			KBS	
<b>9</b>		<b>FINAL EXAM</b>		

### Supporting References:

1. James A. O'Brien, and George Marakas. Management Information Systems 2007, 8th ed. Boston, MA: McGraw-Hill, Inc., 2007. ISBN: 13 9780073323091
2. Turban, Efraim (1993). *Decision Support and Expert System : 3<sup>rd</sup> edition*, Macmillan Inc.
3. Post, Gerald V. 1999. Database Management Systems – Designing and Building Bussiness Applications. International Edition, Mc Graw-Hill.
4. Korth, F. Henry & A. Silberschatz. 2003. *Database System Concepts*. 5<sup>th</sup> edition. McGraw Hill, Inc.
5. PELINDO II, PT Telkom, 2009. *User Manual Guide*, Sistem Informasi Manajemen Operasioanal Kapal
6. Klein, Gunter , 2012. Multimodal Interoperability for Logistic and Envirinment sustainability, dbh Logistic IT AG, Bremen-Germany
7. Schwarze, Ronald, 2012, Marketing Information System, Bremenhaven-Germany
8. Morton, Richard, 2003. How to develop a Port Community System, EPCSA (European Port Community System Association).
9. Konig, Bjela, 2011. Sustainable Port Management. Port Development Department, Bremen-Germany
10. Uwe, Kraft, 2011. Transport of Dangerous Goods by Sea
11. Uwe, Kraft 2011. Emergency planning for port areas and Ship waste disposal
12. Kreiensiek, Brigit & Kamphues, Manuel, 2010, Port Information and Communication System, dbh Logistic IT AG, Bremen

### Websites/URL

1. <http://hipi-isai.org/>
2. <http://www.afita.org/>
3. <http://epetani.deptan.go.id/>
4. <http://www.e-agriculture.org/>
5. <http://kseminar.staff.ipb.ac.id/>