

**KURIKULUM 2014**  
**DEPARTEMEN TEKNIK PERKAPALAN**  
**FTK - ITS**

Semester 1

<b>Kode</b>	<b>Mata Kuliah / Inggris</b>	<b>SKS</b>
<b>SF141201</b>	Fisika Dasar I <i>Basic Physics I</i>	4
<b>SM141203</b>	Kalkulus I <i>Calculus I</i>	3
<b>MN141211</b>	Menggambar Teknik dan Pengantar CAD <i>Engineering Drawing and Introduction To CAD</i>	3
<b>IG141105</b>	Pendidikan Agama Budha <i>Religion</i>	2
<b>IG141104</b>	Pendidikan Agama Hindu <i>Religion</i>	2
<b>IG141101</b>	Pendidikan Agama Islam <i>Religion</i>	2
<b>IG141103</b>	Pendidikan Agama Katolik <i>Religion</i>	2
<b>IG141110</b>	Pendidikan Agama Khonghucu <i>Religion</i>	2
<b>IG141102</b>	Pendidikan Agama Kristen <i>Religion</i>	2
<b>MT141201</b>	Pengantar Teknologi Kelautan <i>Introduction To Marine Technology</i>	2
<b>MN141212</b>	Teknologi Material dan Mekanik <i>Mechanical And Material Technology</i>	3
<b>Total SKS</b>		<b>27</b>

Semester 2

<b>Kode</b>	<b>Mata Kuliah / Inggris</b>	<b>SKS</b>
<b>IG141108</b>	Bahasa Inggris <i>English</i>	3
<b>SF141204</b>	Fisika Dasar II <i>Basic Physics II</i>	3
<b>SM141204</b>	Kalkulus II <i>Calculus II</i>	3
<b>MN141221</b>	Mekanika Teknik I <i>Engineering Mechanics I</i>	4
<b>MN141321</b>	Teori Bangunan Kapal I <i>Basic Ship Theory I</i>	3
<b>IG141106</b>	Wawasan Kebangsaan <i>Civics</i>	3
<b>Total SKS</b>		<b>19</b>

## Semester 3

Kode	Mata Kuliah / Inggris	SKS
MN141307	Ekonomi Teknik <i>Engineering Economics</i>	3
MN141331	Konstruksi Kapal I <i>Ship Structure I</i>	3
MN141231	Matematika Rekayasa <i>Engineering Mathematics</i>	3
MN141232	Mekanika Fluida <i>Fluid Mechanics</i>	3
MN141233	Mekanika Teknik II <i>Engineering Mechanics II</i>	3
MN141234	Pengantar Komputer dan Pemrograman <i>Introduction To Computer &amp; Programming</i>	2
MN141202	Pengantar Teori Ekonomi <i>Introduction to Economics</i>	3
MN141304	Perancangan Kapal I <i>Ship Design I</i>	3
MN141332	Perlengkapan Kapal <i>Ship Outfitting</i>	2
MN141306	Riset Operasi <i>Operation Research</i>	3
MN141333	Teori Bangunan Kapal II <i>Basic Ship Theory II</i>	3
MN141308	Tugas Rencana Garis Kapal <i>Lines Plan Assigment</i>	2
<b>Total SKS</b>		<b>33</b>

## Semester 4

Kode	Mata Kuliah / Inggris	SKS
MN141309	Analisis Jaringan Transportasi Laut <i>Marine Transportation Network Analysis</i>	3
MN141341	Desain Kapal I <i>Ship Design I</i>	3
MN141310	Ekonomi Transportasi Laut <i>Maritime Transportation Economics</i>	3
MN141205	Hambatan dan Propulsi Kapal <i>Ship Resistance and Propulsion</i>	3
MN141342	Hambatan dan Propulsi Kapal <i>Ship Resistance And Propulsion</i>	4
MN141343	Kekuatan Kapal <i>Ship Strength</i>	3
MN141344	Konstruksi Kapal II <i>Ship Structure II</i>	3
MN141204	Perlengkapan Kapal <i>Ship Outfitting</i>	3
MN141206	Sistem dan Permesinan Kapal <i>Ship System and Marine Engineering</i>	3
MN141345	Sistem Perkapalan	2

	<i>Marine Systems</i>	
<b>MN141241</b>	Statistik dan Probabilitas <i>Statistics And Probability</i>	2
<b>MN141346</b>	Tugas Rencana Garis <i>Lines Plan Assignment</i>	2
<b>Total SKS</b>		<b>34</b>

Semester 5

<b>Kode</b>	<b>Mata Kuliah / Inggris</b>	<b>SKS</b>
<b>MN141312</b>	Analisis Sistem <i>System Analysis</i>	3
<b>MN141352</b>	Desain Kapal II <i>Ship Design II</i>	3
<b>MN141351</b>	Dinamika Kapal <i>Ship Dynamics</i>	4
<b>MN141208</b>	Konstruksi dan Kekuatan Kapal <i>Ship Strength and Construction</i>	3
<b>MN141356</b>	Korosi <i>Corrosion</i>	3
<b>MN141357</b>	Manajemen Produksi Kapal <i>Ship Production Management</i>	3
<b>MN141358</b>	Marine Survey dan Inspeksi <i>Marine Survey And Inspection</i>	3
<b>MN141313</b>	Metode Pengambilan Keputusan <i>Decision Making Method</i>	3
<b>MN141209</b>	Perancangan Kapal II <i>Ship Design II</i>	3
<b>MN141251</b>	Peraturan Statutori <i>Statutory Regulations</i>	2
<b>MN141311</b>	Perencanaan Pelabuhan <i>Port Planning</i>	3
<b>MN141353</b>	Permesinan Kapal <i>Introduction To Marine Engineering</i>	3
<b>MN141359</b>	Teknologi Reparasi dan Konversi Kapal <i>Ship Repair And Conversion Technology</i>	3
<b>MN141252</b>	Teori dan Aplikasi Elemen Hingga <i>Theory and Application of Finite Element</i>	3
<b>MN141355</b>	Tugas Desain Kapal I <i>Ship Design Assignment I</i>	4
<b>MN141314</b>	Tugas Merancang Kapal <i>Ship Design Assignment</i>	4
<b>MN141390</b>	Wajib Bidang 1	3
<b>MN141391</b>	Wajib Bidang 2	3
<b>MN141392</b>	Wajib Bidang 3	3
<b>MN141393</b>	Wajib Bidang 4	3
<b>Total SKS</b>		<b>62</b>

## Semester 6

Kode	Mata Kuliah / Inggris	SKS
MN141315	Bisnis Pelayaran <i>Shipping Business</i>	3
MN141366	Bisnis Perkapalan <i>Shipping Business</i>	3
MN141361	Getaran Kapal <i>Ship Vibration</i>	3
MN141362	Hidrodinamika Kapal <i>Ship Hydrodynamics</i>	3
MN141317	Manajemen Pelabuhan <i>Port Management</i>	3
MN141365	Manajemen Produksi Kapal Lanjut <i>Advanced Ship Production Management</i>	3
MN141292	Manajemen Risiko <i>Risk Management</i>	3
MN141316	Rekayasa Logistik <i>Logistics Engineering</i>	3
MN141363	Teknologi Las <i>Welding Technology</i>	3
MN141261	Teknologi Produksi Kapal <i>Ship Production Technology</i>	3
MN141367	Teknologi Produksi Kapal <i>Ship Production Technology</i>	3
MN141364	Tugas Desain Kapal II <i>Ship Design Assignment II</i>	4
MN141394	Wajib Bidang 5	3
MN141395	Wajib Bidang 6	3
MN141396	Wajib Bidang 7	3
IG141107	Wawasan Teknologi dan Komunikasi Ilmiah <i>Technology and Scientific Communication</i>	3
<b>Total SKS</b>		<b>49</b>

## Semester 7

Kode	Mata Kuliah / Inggris	SKS
MN141371	Desain Kapal Dibantu Komputer <i>Computer Aided Ship Design</i>	3
MN141373	Inspeksi Las <i>Welding Inspection</i>	3
MN141271	Metodologi Penelitian <i>Research Methodology</i>	2
MN141318	Pembiayaan dan Asuransi Kapal <i>Ship Finance and Insurance</i>	3
MN141319	Pemodelan Transportasi Laut <i>Marine Transportation Modelling</i>	3

<b>MN141214</b>	Peraturan Statutori <i>Statutory Regulations</i>	2
<b>IG141109</b>	Technopreneurship <i>Technopreneurship</i>	3
<b>MN141374</b>	Teknologi Produksi Kapal Lanjut <i>Advanced Ship Production Technology</i>	3
<b>MN141320</b>	Telematika Transportasi Laut <i>Marine Transportation Telematics</i>	3
<b>MN141272</b>	Teori dan Aplikasi Optimisasi <i>Optimization Theory And Application</i>	3
<b>MN141399</b>	Tugas Bidang III	4
<b>MN141372</b>	Tugas Desain Kapal III <i>Ship Design Project III</i>	4
<b>MN141376</b>	Tugas Perencanaan Transportasi Laut <i>Marine Transportation Planning Assignment</i>	4
<b>MN141375</b>	Tugas Produksi Kapal <i>Ship Production Project</i>	4
<b>MN141397</b>	Wajib Bidang 8	3
<b>MN141398</b>	Wajib Bidang 9	3
<b>Total SKS</b>		<b>50</b>

#### Semester 8

<b>Kode</b>	<b>Mata Kuliah / Inggris</b>	<b>SKS</b>
<b>MN141495</b>	Bangunan Lepas Pantai <i>Introduction To Offshore Engineering</i>	3
<b>MN141466</b>	Bisnis Perkapalan <i>Shipping Business</i>	3
<b>MN141471</b>	Desain Kapal Dibantu Komputer <i>Computer Aided Ship Design</i>	3
<b>MN141452</b>	Desain Kapal II <i>Ship Design II</i>	3
<b>MN141451</b>	Dinamika Kapal <i>Ship Dynamics</i>	3
<b>MN141461</b>	Getaran Kapal <i>Ship Vibration</i>	3
<b>MN141462</b>	Hidrodinamika Kapal <i>Ship Hydrodynamics</i>	3
<b>MN141473</b>	Inspeksi Las <i>Welding Inspection</i>	3
<b>MN141491</b>	Keandalan Struktur <i>Structural Reliability</i>	3
<b>MN141496</b>	Kepecahan dan Kelelahan <i>Fracture Mechanics And Fatigue</i>	3
<b>MN141381</b>	Kerja Praktek <i>Field Work</i>	2
<b>MN141456</b>	Korosi	3

	<i>Corrosion</i>	
<b>MN141498</b>	Manajemen Mutu	3
	<i>Quality Management</i>	
<b>MN141465</b>	Manajemen Produksi Kapal Lanjut	3
	<i>Advanced Ship Production Management</i>	
<b>MN141405</b>	Manajemen Rantai Pasok	3
	<i>Supply chain Management</i>	
<b>MN141492</b>	Manajemen Resiko	3
	<i>Risk Management</i>	
<b>MN141493</b>	Manajemen Strategik	3
	<i>Strategic Management</i>	
<b>MN141293</b>	Manajemen Strategik	3
	<i>Strategic Management</i>	
<b>MN141458</b>	Marine Survey dan Inspeksi	3
	<i>Marine Survey And Inspection</i>	
<b>MN141494</b>	Perancangan Kapal Kecil (L<30M)	3
	<i>Small Craft Design (L&lt;30M)</i>	
<b>MN141403</b>	Perencanaan Infrastruktur Kepulauan	3
	<i>Archipelagic Infrastructure Planning</i>	
<b>MN141404</b>	Perencanaan Pelabuhan Lanjut	3
	<i>Advance Port Planning</i>	
<b>MN141401</b>	Produksi dan Reparasi Kapal	3
	<i>Ship Production and Repair</i>	
<b>MN141474</b>	Teknologi Produksi Kapal Lanjut	3
	<i>Advanced Ship Production Technology</i>	
<b>MN141499</b>	Teknologi Produksi Kapal Non Ferro	3
	<i>Production Technology of Non Ferrous Vessel</i>	
<b>MN141459</b>	Teknologi Reparasi dan Konversi Kapal	3
	<i>Ship Repair And Conversion Technology</i>	
<b>MN141497</b>	Teori Pelat	3
	<i>Theory Of Plates</i>	
<b>MN141406</b>	Transportasi Multimoda	3
	<i>Multimodal Transport</i>	
<b>MN141581</b>	Tugas Akhir	6
	<i>Final Project</i>	
<b>MN141402</b>	Valuasi Kapal	3
	<i>Ship Appraisal</i>	
	<b>Total SKS</b>	<b>92</b>