

# DEPARTMENT OF MARINE ENGINEERING

## Proposed Scheme of Instruction and Examination

B.E. (NAVAL ARCHITECTURE AND MARINE ENGINEERING)

### B.E II/IV SEMESTER - I

Subject Code	COURSE	Periods (L/T/Lab)	Exam (hours)	Sessional Marks	Exam Marks	Total Marks	Credits
*NAM 211	Mathematics-III	3	3	30	70	100	4
NAM 212	Engineering Mechanics-I	4	3	30	70	100	4
NAM 213	Mechanics of Solids-I	5	3	30	70	100	4
NAM 214	Engineering Thermodynamics - I	5	3	30	70	100	4
NAM 215	Theory of Ships	5	3	30	70	100	4
NAM 216	Ship drawing - I	6	NIL	100	NIL	100	4
NAM 218	Strength of Materials Laboratory	3	3	50	50	100	2
NAM 219	Workshop -II	3	3	50	50	100	2
	<b>TOTAL</b>	<b>34</b>		<b>350</b>	<b>450</b>	<b>800</b>	<b>28</b>

\*Common with Mechanical Engineering.

### B.E II/IV SEMESTER - II

Subject Code	COURSE	Periods (L/T/Lab)	Exam (hours)	Sessional Marks	Exam Marks	Total Marks	Credits
* NAM 221	Mathematics-IV	3	3	30	70	100	4
NAM 222	Engineering Mechanics - II	4	3	30	70	100	4
* NAM 223	Environmental Sciences	5	3	30	70	100	4
NAM 224	Engineering Thermodynamics - II	5	3	30	70	100	4
NAM 225	Mechanics of Solids-II	5	3	30	70	100	4
* NAM 226	Material Science and Metallurgy	4	3	30	70	100	4
* NAM 227	Electrical Technology	5	3	30	70	100	4
* NAM 228	Electrical Technology Lab	3	3	50	50	100	2
NAM 229	Engineering Thermodynamics Lab	4	3	50	50	100	2
	<b>TOTAL</b>	<b>38</b>		<b>310</b>	<b>590</b>	<b>900</b>	<b>32</b>

\*Common with Mechanical Engineering.

### B.E III/IV SEMESTER – I

Subject Code	COURSE	Periods (L/T/Lab)	Exam (hours)	Sessional Marks	Exam Marks	Total Marks	Credits
*NAM 311	Industrial Electronics	5	3	30	70	100	4
NAM 312	Fluid Mechanics	5	3	30	70	100	4
NAM 313	Ship Design - I	5	3	30	70	100	4
NAM 314	Marine Machinery – I	4	3	30	70	100	4
NAM 315	Resistance & Propulsion	5	3	30	70	100	4
NAM 316	Elective-I	5	3	30	70	100	4
# FE 01	Free Elective - I	4	3	30	70	100	4
* NAM 317	Soft Skills Lab	3		100		100	1
	<b>TOTAL</b>	<b>36</b>		<b>310</b>	<b>490</b>	<b>800</b>	<b>29</b>

\*Common with Mechanical Engineering.

# For other department students

### B.E III/IV SEMESTER - II

Subject Code	COURSE	Periods (L/T/Lab)	Exam (hours)	Sessional Marks	Exam Marks	Total Marks	Credits
NAM 321	Manufacturing Technology	5	3	30	70	100	4
NAM322	Strength of Ships	5	3	30	70	100	4
NAM 323	Marine Hydrodynamics	5	3	30	70	100	4
NAM 324	Ship Design - II	5	3	30	70	100	4
NAM 325	Elective-II, Off-shore structures, Marine power plant engineering,	5	3	30	70	100	4
NAM 326	Ship Construction	5	3	30	70	100	4
NAM 327	Ship Drawing - III	6		100		100	4
	<b>TOTAL</b>	<b>36</b>		<b>280</b>	<b>420</b>	<b>700</b>	<b>28</b>

3 weeks Industrial training during summer vacation after 3<sup>rd</sup> year 2<sup>nd</sup> semester. Submission of report and presentation in 4<sup>th</sup> year 1<sup>st</sup> semester.

**B.E IV/IV SEMESTER - I**

B.E IV/IV SEMESTER - I							
Subject Code	COURSE	Periods (L/T/Lab)	Exam (hours)	Sessional Marks	Exam Marks	Total Marks	Credits
NAM 411	Sea Keeping and Maneuverability	5	3	30	70	100	4
NAM 412	Ship Structural Design and Vibrations	5	3	30	70	100	4
NAM 413	Elective-III	5	3	30	70	100	4
NAM 414	Marine Machinery– II	5	3	30	70	100	4
NAM 415	Elective - IV	5	3	30	70	100	4
NAM 416	Ship Drawing - IV	6		100		100	4
NAM 417	Ship Hydrodynamics Laboratory	3	3	50	50	100	2
NAM 418	Project	6		100		100	
NAM 419	Industrial Training Report			100		100	2
	<b>TOTAL</b>	<b>40</b>		<b>500</b>	<b>400</b>	<b>900</b>	<b>28</b>

**B.E IV/IV SEMESTER - II**

Subject Code	COURSE	Periods (L/T/Lab)	Exam (hours)	Sessional Marks	Exam Marks	Total Marks	Credits
NAM 421	Marine Instrumentation & Control Systems	5	3	30	70	100	4
NAM 422	Computer Aided Ship Design	5	3	30	70	100	4
# FE 02	Free Elective II	4	3	30	70	100	4
* NAM 423	Engineering Economics	3	3	30	70	100	4
NAM 424	Metrology & Marine Instrumentation Lab.	3	3	50	50	100	2
NAM 425	Computer Aided Ship Design Laboratory	6	3	50	50	100	2
NAM 426	Project	9		50	150	200	8
	<b>TOTAL</b>	<b>35</b>		<b>270</b>	<b>530</b>	<b>800</b>	<b>28</b>

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