

**ANNEX B OF CMO NO. 20, SERIES OF 2015
BACHELOR OF SCIENCE IN MARINE TRANSPORTATION
COURSE SPECIFICATIONS**

Course Code	:	Nav 6
Course Descriptive Title	:	Operational Use of ECDIS
Course Credits	:	2 units
Lecture Contact Hours per Week	:	1 hour
Laboratory Contact Hours per Week	:	3 hours
Prerequisite	:	Nav 5
Reference/s	:	<ol style="list-style-type: none">1. Table A-II/1 of the 1978 STCW Code as amended Function: Navigation at the operational level2. IMO Model Course 1.27 and 7.033. Annex A of CMO No. 20, Series of 2015 (Curriculum Mapping for BSMT)

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	TOPICS	APPROX HOURS
<p>F1: Navigation at the operational level.</p> <p>Use of ECDIS to maintain the safety of navigation.</p>	<p>1.4.1 ELEMENTS OF ECDIS <i>Navigation using ECDIS</i></p>	1. Course introduction & familiarization plan	10 Hours
		2. Purpose of ECDIS	
		3. Value to navigation	
		4. Correct and Incorrect use	
		5. Workstation start, stop & layout	
		6. Vessel position	
		7. Position source	
		8. Basic navigation	
		9. Heading & drift vectors	
		10. Understanding Chart Data	
		11. Open sea (Basic Integrated Navigation)	
		12. Chart quality & accuracy	
		13. Chart organization	
		14. Sensors	
	<p>Watchkeeping with ECDIS</p>	15. Ports & data feeds	9 Hours
		16. Chart selection	
		17. Chart information	
		18. Changing the settings	

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	TOPICS	APPROX HOURS
	ECDIS Route Planning and Monitoring	19. Chart scaling	
		20. Information layers	
		21. System & position alarms	
		22. Depth & contour alarms	
		23. Coastal waters (chart display settings)	
		24. Vessel Manoeuvring characteristics	9 Hours
		25. Route Planning by table	
		26. Route planning by chart	
		27. Track limits	
	28. Checking plan for safety		
	29. Additional Navigational Information		
	ECDIS Targets, Charts & System	30. Coastal & restricted waters (navigation alarms & route scheduling)	7 Hours
		31. Route schedule	
		32. User charts in route planning	
		33. ARPA/Radar overlay	
		34. AIS functions	
		35. Procuring & installing chart data	
		36. Installing chart corrections	
37. System reset & back up			
38. Archiving ECDIS data and data logging			

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	TOPICS	APPROX HOURS
	ECDIS Responsibility	39. Restricted waters (advanced integrated navigation with ECDIS)	
40. Responsibility			
41. Effective navigation with ECDIS			
42.		6 Hours	
43. Coastal & restricted waters (underway ECDIS Navigation)			
44. Effective navigation with ECDIS			
Total		41	