Part B. Course Outline and Timetable

TERM	OUTCOMES	TIME ALLOTMENT (in hours)	
		Theoretical	Demonstration/ Practical Work
Note: *The MHEIs shall determine the time allotment for the conduct of course outcome assessments / summative assessments.*	**CO1.** Operate the Electronic Chart Display and Information System (ECDIS) for navigational safety as per the operator's/ manufacturer's manual.		
	LO1.1. Explain the operational capability and limitations of an ECDIS in terms of the following: a. characteristics of ENC data; b. data accuracy; c. presentation rules; d. display options and other data chart formats; e. functional requirements based on the latest performance standards; f. dangers of over-reliance on an ECDIS to the safety of navigation	**6**	
	LO1.2 Explain the basic functions of operational control of ECDIS	**4**	
	LO1.3 Demonstrate the basic standard functions of ECDIS		**9**
	LO1.4 Differentiate between information layers, user chart layers, and event graphic	**4**	
	LO1.5 Select the display information layer appropriate to a given situation		**9**
	LO1.6. Explain the difference between a Vector Navigation Chart (VNC) and a Raster Navigation Chart (RNC)	**4**	
	Course Outcome Assessment		**9**
	CO2. Monitor, interpret, and analyse the information obtained from Electronic Chart Display and Information System (ECDIS), taking into account the limitations of the equipment, all connected sensors (including Radar and AIS where interfaced), and the prevailing circumstances and conditions.		
	LO2.1. Explain the significance of information derived from Electronic Navigational Charts (ENCs) to identify various navigational data such as course over ground (COG), speed over ground (SOG), and estimated time of arrival (ETA)	**4**	

TERM	OUTCOMES	TIME ALLOTMENT (in hours)	
		Theoretical	Demonstration/ Practical Work
	LO2.2. Display the information from Electronic Navigational Charts (ENCs) to identify various navigational data to ensure safety of navigation	**2**	**9**
	LO2.3 Explain the advantages and disadvantages of RADAR, RADAR Targets, AIS overlays, and other interfaced equipment to the effective use of ECDIS in relation to the safety of navigation	**2**	
	LO2.4 Monitor the position of the ship to determine her safe passage using a validated pre-planned route	**2**	**9**
	LO2.5 Explain the information related to safety of navigation, that may be obtained from the equipment interfaced with the ECDIS	**2**	
	Course Outcome Assessment		**15**
	Total Contact Hours	**90**	