Course Description Form

Basic Course Specifications					
Course Title	:	Practical Nav	vigation		
Course Code	:	<mark>TI 336</mark>			
Program on which the course is given	:	Bachelor	D Diploma		DPre-
			•	Master	PhD
Academic vear	:	2015/2016			
Specialization (units of study)	•	Application :	180 Hrs Cred	it ·3H	
Pro-Boquisitos	•	Reprication :	23 <i>1</i>	n .511	
Overall Course Objectives	•		234		
Overall Course Objectives	- 4 :				
The course aims to enable the student to di	stir	iguish between	types of fixing	methods, t	earings,
and compasses arror baside understanding	лι tha	o use the celest	ing using color	iol ophoro.	p position
According to STCW 1978 as amended in	າສດ	dition to IMO	model course	7 03	
Intended Learning Outcomes	1		mouel course	7100.	
Intended Learning Outcomes					
Knowledge and Understanding		11 4			
At the end of the course the students will	I be	e able to:			
a.1 Competent to carry out voyage plann	ung FIO	N and understa	and the main con	ncont	
a.2 Realize the importance of NAVIOAT	net	hods bearings	types of ship's	tracks and	courses
a.5 Distinguish between types of fixing i	net	rstand their use	s and compasse	s error	courses.
a 5 Define position lines and understand	l th	e methods of fi	s and compasse xing	5 01101	
a.s. Define position lines and understand the methods of fixing					
At the end of the service students should be able to					
At the end of the course, students should be able to b 1 Use the celestial bodies to determine ship position					
b.1 Use the celestial bodies to determine ship position. b 2 Demonstrate plotting of ship's position on the chart using positions lines and methods of					
fixing					
b.3 Collect, analyses and evaluate information.					
b. 4 Calculate hight of tide using Tide tables and Tidal Stream.					
Professional and Practical skills					
At the end of the course, students should	l be	e able to:			
c.1 Use various nautical charts.					
c.2 Read the chart abbreviations and be f	fam	iliar with the co	ommon symbol	s.	
c.3 Calculate course, distance and arrival position using sailing methods.					
c.4 Extract ship position by terrestrial observations, set ship courses and calculating estimated					
time of arrival.					
c.5Calculate the time of Sunrise, Sunset and Meridian passage.					
c.6 Check for and adjust sextant errors.					
c.7 Practical use of sextant to obtain position line using sun and star.					
c.8 Practical use of sextant to obtain position line using coastal object.					
or by coastal objects					
c 10 Apply Celestial Navigation methods to fix the ship's position (sup run method and					
simultaneous sights)					
General and Transferable skills					
At the and of the course, students should be able to:					
d.1 Handle navigational watch	i Dt	. avic 10.			
d.2 Demonstrate the art of plotting on the chart.					
d.3 Make follow the ship position by different methods.					

Course content				
Lect. #	Торіс	Hrs#	Theoretic al	Practical
1	Select charts with adequate scale & consult nautical publications	9		9
2	Planning of a passage between two ports from berth to berth	9		9
3	Sextant parts and errors & Applications on marine compasses error	9		9
4	Applications on straight, circular and relative position lines to plot on the chart	9		9
5	Applications on altitude correction (Sun and Stars)	9		9
6	Applications onIntercept (Marquee St. Hailer Method) Sun & Stars	9		9
7	Assessmentt	9		9
8	Applications on finding height of tide at a given time	9		9
9	Compass Error (Time, Amplitude and Polaris methods)	9		9
10	Applications on Running Fix	9		9
11	Applications on Preparation of Stars for sights	9		9
12	Assessment	9		9
13	Information from Charts, Lists of Lights and Other Publications	9		9
14	Applications on finding the time of determined height of tide	9		9
15	Exercise on Chart work under effect of wind, current and tidal stream	9		9
16	Applications on Sailing Methods & states Mercator Sailing formula	9		9
17	Applications on Simultaneous Sights	9		9
18	Applications on Noon Sight	9		9
19	Content, application and intent of COLREG	9		9
20	Assessment	9		9

Teaching & learning methods				
Practical Work , Group Work , Individual Study and Problem Study				
Facilities required for Teaching & learning methods				
	Toverhead		Charts &	Bridge
				Diluge
Lab	Slide	<u>SeaTraining</u> work Book	<u>publications</u>	instruments
Students Assessment Methods				
Assessment submission Schedule				

Assessment#1:	Continuous
Assessment#2:	Post voyage 4
Assessment#3 :	During Final Training voyage

Grading Method				
Attendance None				
Practical watch evaluation			Continuous 30 Marks	
Presentations			None	
Practical Ass	ignments		20 Marks	
Projects			None	
Participation			None	
Oral Examin	ation		10 Marks	
Final Examin	nation		40 Marks	
			Total 100%	
*Assessment criteria shall meet the standards of the STCW 78 convention "as amended""; and in the light of the related IMO model courses				
List of References				
Course Notes				
Description	iption : • Guided Sea Training Book (Part 2)			
Essential Books				
Description	: • A • T	 Admiralty Manual of Navigation (Vo I. & Vo II.) The American practical navigator – Bowditch 		
IMO				
Description	: • R • ,I • I	 R1 STCW,1978, as amended(ISBN 978-92-801-1528-4) ,R3 Ships routing R33 Resolution A.528(13) 		
Periodicals and publications				
Description : • Training Nautical Chart 2375& Admiralty Publications				
Others (websites, e-booksetc)				
Description	: • In V	• International Convention on Standards of Training, Certification and Watch keeping for Seafarers (STCW),with Amendments.		