

Course Timetable - Second Year
Updated to 7th November 2008

KEY:

- 8. Navigation Module**
- 3. Advanced Sailing Module**
- 4. Ropework Module (second part)**
- 9. Meteorology Module**
- 10. Towing Module**
- 4. Ropework Module (remainder)**
- 11. Care & Maintenance Module**

Already Done This Year:

Magnetic Compasses

Hand Bearing

Sources of Information

Pilot Books

Almanacs

Atlas of Tidal Streams

Charts

Types - large and small scale, Admiralty and Imray.

Basic features

Symbols - Chart 5011

Chart Instruments

Traditional Navigation

3-bearing fix

Running Fix

Bearing & Depth, limitations of this

Making the best of conflicting data

Module 3A; Advanced Sailing 1; Reefing Systems, Lee Shores

Module 3B1; Advanced Sailing 2; Mooring

The Bollard Hitch (a.k.a. Tugboat Hitch, a.k.a. Lighterman's Hitch)

November 12th:

Traditional Navigation

Dead Reckoning

Estimated Position

Course to Steer

Advanced Sailing 2; Wind over Tide, Docking, Manoeuvring

November 19/26:

Passage Planning

Factors to consider

Tides

Weather

Limitations of Boat

Limitations of Crew

Tidal gates

Headlands / shoals, tide races / overfalls

(where to expect them / avoiding them)

Escape routes – harbours of refuge

Searoom off lee shores

Landfall - identifying marks, etc.

Advanced Sailing 3; Working the Tide, Gaff Rig

December 3:

General revision and catch-up session for work missed

December 10:

Magnetic Compasses

Steering

Variation

Deviation

Methods of checking deviation

Ship's log (patent log) for measuring distance (and usually also speed) through the water.

Charts

Datum

WGS84

Traditional Navigation

Bearing & range fix

By dipping distance

By vertical sextant angle

By rangefinder

By radar range

track over ground & depth, limitations of this

Module 3D-1; Anchoring

CHRISTMAS BREAK

January 7:

Pilotage

“Eyeball pilotage”

Module 3D-2; Choosing an Anchorage

January 14:

Radar

Fix by radar ranges

GPS

Datum system

Position fixes

Lat & Long

Bearing & distance from waymark

Cross track ladder / XTE

Waymarks

Routes

The logbook

Module 3D-3; Mooring alongside quay, etc. - Problems due to changing height of tide

January 21

Sources of weather forecasts

Instruments

Causes of weather systems

January 28

Broad principles of UK weather patterns

Land and sea breezes

Depressions and Highs

Fronts

Cloud types

Common patterns - traditional seamen's rhymes as aide-memoires

February 4

Behaviour of depressions

Isobars

Weather associated with fronts

Reading the synoptic charts

Predictions from the data

February 11

Beaufort Scale related to sea state

Practical exercises

From February 18:

10. Towing Module, 4. Ropework Module (remainder), 11. Care & Maintenance Module.

Completed in First Year: 1. Basic Sailing Module, 2. Tides Module, 4. Ropework Module (part), 5. Rule of the Road Module, 6. Buoyage, Transits, Navigation Marks Module, 7. Safety Afloat Module.