

ABOUT THE COURSE

The primary objective of this short course is to provide conversion or refresher training for science and engineering graduates and experienced draughtsmen who hold active line responsibilities in the design of ships and ship systems and in shipbuilding practice. The course is designed in such a way that at the end of the lectures, the person will have a very broad understanding of the behaviour of ships under a variety of loading and operating conditions.

The syllabus will include: basic definitions of ships, structural components of the hull girder, general arrangement, ship as functional blocks, resistance and propulsion methods

The course is intended for practising engineers and research scientists who need to understand the concepts behind the behaviour of ships & ships system at sea.

WHO SHOULD ATTEND

Engineers and scientists involved in the design of ships and ship systems. Personnel from ship management companies, oil companies, classification societies and ship builders will benefit from attending this course. The course is innovative in both content & structure with a careful balance of theory & practice.

COST

The registration fee of the workshop will be £650 + VAT (UK only) which includes course notes and lunches. You should make your own arrangements for accommodation.

PAYMENT

Payments can be made by cheque (made payable to ASRANet Ltd.), cash or bank transfer. Please enquire for details.

VENUE

ASRANet Ltd
St Georges Building
3rd Floor
5 St Vincent Place
Glasgow, G1 2DH

NOTE

Please do not make your travel arrangements until you receive an Invoice from us.

CONTACT

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Basic Naval Architecture

3-4 September 2018
Glasgow, UK

The logo for ASRANet, featuring the word "ASRANet" in a bold, yellow, sans-serif font. The letters are slightly shadowed, giving it a 3D appearance as if it's floating above a dark blue rectangular background.

PROGRAMME

Monday 3rd September 2018

09.00 - 10.30 Lecture 1: Basic Definitions, Displacement, Deadweight, Deck Load etc. Loading Conditions, Stability and Trim, Stability Book, Role of Marine Agencies
Dr Omar Khattab

10.30 - 10.45 *Break*

10.45 - 12.15 Lecture 2: Ship Capsizing, Static Stability, Worked Example on Ships
Dr Omar Khattab

12.15 -13.30 *Lunch*

13.30 – 15.00 Lecture 3: Tutorials on Stability
Dr Omar Khattab

15.00 - 15.30 *Break*

15.30 - 17.00 Lecture 4: Resistance & Propulsion
Dr Omar Khattab

Tuesday 4th September 2018

09.00 - 10.30 Lecture 5: Hydrodynamics - I
Dr Omar Khattab

10.30 - 10.45 *Break*

10.45 - 12.15 Lecture 6: Hydrodynamics - II
Dr Omar Khattab

12.15 -13.30 *Lunch*

13.30 - 15.00 Lecture 7: Hull Girder Response – I
Still Water & Wave Bending Moment
Professor Purnendu Das

15.00 - 15.30 *Break*

15.30 - 17.00 Lecture 8: Hull Girder Response - II
Bending & Shear Stress
Professor Purnendu Das

LECTURER CV'S

Omar Khattab BSc, MSc, PhD, CEng, FRINA,MSANJ has been an independent consultant since 2007 working for various clients including Brooks Bell Jarret Kierman, Safety at Sea Ltd., Milford Haven Port Authority, Svitzer Marine Ltd., Port of Belfast, Lloyds Register EMEA, Clydeport Operation Ltd. and SACH Solicitors amongst others. Prior to becoming an independent consultant, Dr. Khattab was a lecturer at Alexandria University, Egypt, where he gained his undergraduate degree, for 5 years. He obtained his MSc degree in Hydrodynamics from Alexandria University and his PhD from Japan in 1979. He then spent 5 years with the British Ship Research Association (BSRA) as Principal Research Officer at the Naval Architecture Department. During 1988-1993, Dr. Khattab worked in Senior and Management positions at BMT in the Ship Performance Department, the Fluid Dynamics Group and the Hydrodynamic Services at BMT CORTEC Ltd. After this spell at BMT, he returned to lecturing at Southampton Institute where he began as Senior lecturer for 2 years and was quickly promoted to Head of Maritime Technology. Dr. Khattab then moved to Brookes Bell Jarret Kirman in 2000 before beginning work as R & D Manager at Safety at Sea Ltd where he stayed until he began consultancy work. Dr. Khattab is a Fellow of Royal Institute of Naval Architects, a member of Japan Society of Naval Architects as well as a member of Kansai Society of Naval Architects. His areas of expertise include

Ship Grounding and Collision, Hull Form Design, Fluid Mechanics, Ship Construction and Ship hydrodynamics amongst many others. His Consultancy work has included the Investigation of handling behaviour of new generation of Cruise Liners in Miami Harbour and

the Design of berthing Jetty for Svitzer tugs in Milford Haven to name but a few.

Purnendu Das. BE, ME, PhD, C.Eng, C.MarEng, FRINA, FIStructE, FIMarEST has been the Director of 'ASRANet Ltd' (an ISO 9001-2008 certified company) since February 2006. He retired as a Professor of Marine Structures in the Department of Naval Architecture & Marine Engineering at the University of Strathclyde, UK in September 2011. Past EU projects were MARSTRUCT (a network of excellence on Marine Structure) and SHIPDISMANTL (a cost effective and environmentally friendly dismantling of ship structures). Past industrial projects included work from the UK Health and Safety Executive (HSE), MoD UK, Subsea-7 UK, Shell, Woodgroup and US Navies etc. He was the principal investigator of many EPSRC projects. Before joining the University of Glasgow in 1991 he worked with British Maritime Technology as Principal Structural Engineer (1984-91). He is the author of more than 250 publications, including contract reports and more than 60 journal papers and is a member of the editorial boards of the 'Journal of Marine Structures', 'Journal of Ocean and Ship Technology' and 'Journal of Ocean and Climate System' and the Journal of Ship Mechanics amongst others. His areas of research include limit state design and analysis & reliability analysis of ship & offshore structures. Purnendu Das has wide ranging industrial and academic contacts and has advised and supervised 20 PhD students, to his credit. Details of visits and collaborations include his various sabbatical study periods spent at University of California, Berkeley, USA (July – September 1996), at Lloyd's Register of Shipping (August 1997), Kockums Ltd (July 1998) and spent some time at Instituto Superior

Técnico (IST), Lisbon (July 2000). He is running about 20 CPD courses which are attracting many people from different industries. These courses are on 'Fatigue & Fracture Analysis', 'Ships at Sea', 'Advanced

Analysis and Design of Offshore Structures', 'Offshore Floating System Design', 'Structural Response under Fire and Blast Loading' and 'Design of Pipelines and Risers' amongst others. He was a member of ISSC (International Ship and Offshore Structure Congress) for the periods of 1991-97 and 2003-2006. He was a member of the OMAE (Offshore Mechanics and Arctic Engineering) Organising Committee on 'Safety and Reliability'. He is running about 15 biennial international conferences on various themes like Risk, Reliability, Advanced Analysis & Design of Engineering Structures, including marine structures. He was a member of the "Research Committee" of Structural Engineers (IStructE)

during 2012-2015. He was a visiting Professor at IST Surabaya, Indonesia from July 2015 for one year. He is now a visiting professor at the Wuhan University of Technology, China from July 2016.