

**2022-23**

28/03/2022



**CHRIST KNOWLEDGE CITY**

An Engineering College Approved by AICTE  
Affiliated to APJ Abdul Kalam Technological University, Kerala  
Mannoor, M.C.Road, Muvattupuzha, Ernakulam Dist., Kerala

## **NAVAL ARCHITECT or An EMERGING ENGINEER**

Shape your future as a NAVAL ARCHITECT  
or an Emerging Engineer in BLOCKCHAIN or  
in ARTIFICIAL INTELLIGENCE AND  
MACHINE LEARNING from APJAKTU/APJ  
Abdul Kalam Technological University, Kerala  
by Studying in Christ Knowledge City  
Engineering College at Muvattupuzha.

INSTITUTION  
CODE

**CKC**



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# CHRIST KNOWLEDGE CITY

## A Co-Ed Residential Engineering College in Kerala

### Fees Structure for 2022 - 2023 B.Tech Admission for Seven (7) Branches

Sl	Code	B.Tech Branch	Yearly Tuition Fees
1.	SB	Naval Architecture and Ship Building	₹ 85,000/-
2.	BN	Blockchain	₹ 35,000/-
3.	AH	Artificial Intelligence and Machine Learning	₹ 35,000/-
4.	CS	Computer Science and Engineering	₹ 35,000/-
5.	CE	Civil Engineering	₹ 35,000/-
6.	ME	Mechanical Engineering	₹ 35,000/-
7.	EC	Electronics and Communication Engg.	₹ 35,000/-

### ADMISSION ELIGIBILITY

Pass in any 10+2 like Kerala / CBSE / ISE / VHSE

45% Aggregate Marks for Physics, Chemistry, Maths

Qualified / Rank in KEAM 2022 or JEE (Main) 2022

Even with Academic Eligibility only, admissions can be taken

#### INCLUDED IN THE FEES

Tuition Fee / Special Fee / Library Fee

#### EXCLUDED IN THE FEES

Admission Fees / Caution Deposit / Hostel Stay and Mess Transport / Bus Fee / Uniform / All University Fees / Note and Text Books / Value Added Fees

### B.TECH - SB / NAVAL ARCHITECTURE AND SHIP BUILDING ENGINEERING

#### An Introduction to an Emerging Course - Naval Architecture

B.Tech in Naval Architecture and Ship Building Engineering [Course Code SB] focus on design, construction and maintenance of all types of Marine Vessels such as Ships, Yachts, Boats, Oil and Gas tankers, Containers, Passenger Ships, Ferries, Submarines, Seaplanes, Hovercrafts, etc.

#### An outlook to Christ Knowledge City and this Course

Christ Knowledge City, [College Code CKC] offers Seven (07) Nos. B.Tech branches among that Naval Architecture and Ship Building Engineering [Course Code SB] is the Flagship Course. The College is affiliated to APJAKTU/APJ Abdul Kalam Technological University and approved by AICTE, New Delhi. Both Male and Female students are eligible for admission to this course. Students having aptitude in Architecture, Civil, Mechanical and Design are well suited to study. The Department of Naval Architecture is equipped with State of the Art facilities including the latest Ship Design Software to prepare the students for a career in their exciting field of this engineering.

#### An approach to the field of Naval Architecture And Ship Building

A Naval Architect is involved in design, quality control, estimation, repair and construction of Naval vessels. No other career offers the same amount of responsibilities at once. This field provides upcoming opportunities to a dynamic career in which the student will be able to design Ships, boats and learn the different marine equipment's used

onboard the Ship. Some of the platforms they design are among the largest, most complex and highly valued moveable structures produced by mankind. They undertake tasks like the design of the Ship's Hull (main body) form, Ship interior design, structure, and stability of hulls. The need to design environmental-friendly Ships (greenship) and systems to transport energy products, such as liquefied natural gas.

#### An attraction to opt B.Tech Naval Architecture And Ship Building

This B.Tech Branch of Study - Naval Architecture and Ship Building Engineering has only limited seats (say 96 seats) in Kerala. On the other hand branches like Civil Engineering, Mechanical Engineering, Electronics and Communication Engineering, etc. have around 7500 seats each in Kerala, from this statistics, it is evident that none of the B.Tech Naval Architects are without job/placement. Moreover, the starting package of any Naval Architect is Ten Lakh per annum.

#### Programme Educational Objectives

This Programme aims at creating a successful and distinguished Naval Architect with innovative and creative thinking skills that adds to the professional growth of the student. We also believe in providing the students with high moral values and societal responsibilities.





## Programme Outcomes

A Naval Architect from our Institute will be able to apply knowledge of Mathematics, Science and Engineering in their specialization involving complex engineering problems, to Design a system component or process to meet the desired needs and standards within realistic constraints such as public health and safety, social and environmental considerations also to add up that he/she will be able to Work with multi-disciplinary teams, involve in team activities and accomplish a common goal.

## Higher Study Options

After B.Tech Graduation, Naval Architects students have many higher study options at Post graduate level which are mainly in

- Naval Architecture
- Ship Building
- Ship Technology
- Naval Structural Engineering
- Marine Engineering
- Offshore Engineering
- Ocean Technology
- Ocean Engineering
- Subsea Engineering
- Marine Survey
- Harbour and Ocean Engineering
- Offshore Energy Engineering
- Underwater Cable System, etc.

## Research and Development - Possibilities

Research Scholar, Fellows, Scientist at NSTL, NPOL, DRDO, ONGC, EIL etc.

## Academic Opportunities

Naval Architects with Post graduation have always openings in Teaching Profession – starting from Assistant Professor to Associate Professor to Head of the Department and then as Principal/ Director in Colleges / Universities where this course is offered. This field has always a heavy demand because seasoned Naval Architects prefer to be in the Industry due to salary level.

## Job Opportunities

On degree completion, the candidates are eligible to occupy Engineer / Managerial positions in various Government and Private Shipyards, Ship Design offices, Boatyards, Classification Societies, Indian Navy, and Ship building contract companies within India and abroad with high salary. They can work as a design engineer, marine surveyor, production engineer, offshore engineer, quality control inspector and Technical assistants and support as a Project manager for new vessel / offshore constructions. They are also primarily responsible for the selection of internal systems of a Ship, such as propulsion, electrical, refrigeration, and steering. They can work in offices, where they have access to computer software and other tools necessary for analyzing projects and designing solutions. The students after completing the course can aspire for higher studies and undertake maritime research in Universities and Industry/ can work as Analyst in Ships and Marine structures.

## INDIAN

### Organizations where Naval Architects are placed

Under the Ministry of Shipping

- Cochin Shipyard Ltd.
- Hooghly Dock & Port Engineers Ltd, Kolkata.

Under Ministry of Defense

- Hindustan Shipyard Ltd, Visakhapatnam
- Mazagon Dock Ltd, Mumbai
- Garden Reach Ship Builders and Engineers Ltd, Kolkata
- Goa Shipyard Ltd.

Under the Control of State Governments

- Alcock Ashdown Co. Ltd, Gujarat
- Shalimar Works Limited, Kolkata.

Major Ship Design Offices of Govt. of India

- Directorate of Naval Design, New Delhi
- School of Maritime Design and Research - Visakhapatnam
- National Institute of Ocean Technology - Chennai.

Indian Navy and Indian Coast Guard

- Naval Construction Officer
- Submarine Engineer Officer
- Engineering General Service Officer.

Other Indian Major Private Organizations

- Navagathi Marine design and construction
- Conceptia Software Technologies
- Seablue Shipyard
- L&T Shipbuilding
- Indian Registry of Shipping
- Aries Marine Engg. Services

## FOREIGN

### Organizations where Naval Architects are placed

Naval Architects in Singapore

- Damen Shipyards
- Sembcorp Marine Jurong Shipyard Pte Ltd
- Keppel Shipyard
- Rubicon Offshore International

Naval Architects in Qatar

- Nakilat-Keppel Offshore & Marine
- Al-Hazeem Marine Services
- Halul Offshore services

Naval Architects in Dubai

- DryDocks world
- Grandweld Shipyards
- Green Ocean International Ship repair

Naval Architects in Yacht building units - Dubai

- Ocean Boats
- Poseidon Ships & Yachts Manufacturing L.L.C
- Al Rubban Marine

Naval Architects in Sharjah

- Albwardy Damen
- Rivera Boat Industrial Investment Co.
- Solas Marine Services



#### Naval Architects in Bahrain

- Al - Jazeera Shipping
- BASREC
- Arab Shipbuilding and Repair Yard company

#### Naval Architects in UK

- Macduff Shipyards Ltd.
- BAE Systems
- Carmet Marine
- Trafalgar Shipyard Ltd.

#### Naval Architects in EU/European Union

- Damen Shipyards – Netherlands
- Claasen Shipyards – Netherlands
- Orskov Yard A/S - Norway
- Rauma Shipyard – Finland

#### Naval Architects in USA

- Fincantieri Bay Shipbuilding (FBS)
- Derecktor Shipyards
- Colonna's Shipyard Inc.

INSTITUTION  
CODE **CKC**

### B.TECH - BN / BLOCKCHAIN

Christ Knowledge City is the only Engineering College in Kerala offering B.Tech in Blockchain Technology, an Emerging Engineering course which is World's most advanced e-governance, e-commerce and e-banking platform.

### B.TECH - AH / ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Artificial intelligence is a technology using which we can create intelligent systems that can simulate human intelligence whereas Machine learning is a sub field of artificial intelligence, which enables machines to learn from past data or experiences without being explicitly programmed.

Adviser for these Emerging B.Tech Courses

**Dr. Shahjahan Hussain**

Honorary Counselor & Resource Person,  
Ministry of Corporate Affairs, Govt. of India



### B.TECH. ENGINEERING COURSES OFFERED

- SB** Naval Architecture and Ship Building
- BN** Blockchain
- AH** Artificial Intelligence and Machine Learning
- CS** Computer Science and Engineering
- CE** Civil Engineering
- ME** Mechanical Engineering
- EC** Electronics and Communication Engineering

Online application forms with  
Fee Structure & Eligibility on Website  
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