MANDATORY DISCLOSURES

1. Name of the Institution

Name of the Institution	Department of Ship Technology
Address of the Institution	Department of Ship Technology Cochin University of Science and Technology Kochi - 682022 Kerala
Telephone	+91-484-2575714/ +91-484-2862580
E-Mail	ship@cusat.ac.in

2. Name and address of the Trust/ Society/ Company and theTrustees

Cochin University of Science and Technology

3. Name and Address of the Head of the Department

Head of the Department	Dr. Satheesh Babu P K
Address	Dr. Satheesh Babu P K Department of Ship Technology Cochin University of Science and Technology Kochi - 682022 Kerala
Telephone	+91-484-2575714/ +91-484-2862580
Mobile	+91-9946063772
E-Mail	satheeshbabu@cusat.ac.in

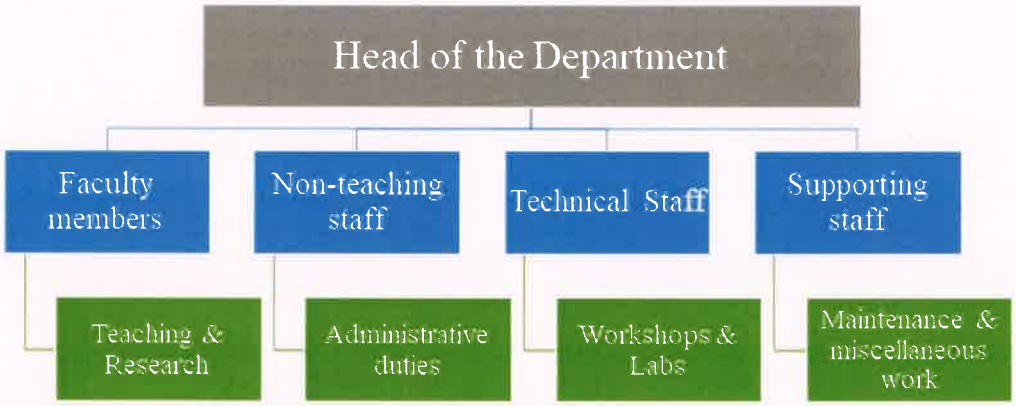


4. Name of the affiliating University

Name of the affiliating University	Cochin University of Science and Technology
Address	Cochin University of Science and Technology Kochi - 682022 Kerala
Website	www.cusat.ac.in

5. Governance

Governing Board Members	**https://www.cusat.ac.in/glance.php#**
Academic Advisory Body	**YES**
Frequency of meetings	
Members of the Board and their brief background	**https://www.cusat.ac.in/glance.php#**
Organizational chart and processes Nature and Extent of involvement of Faculty and students in academic affairs/improvements	





Mechanism/ Norms and Procedure for democratic/ good Governance	**Yes, as per University Act 1986**
Student Feedback on Institutional Governance/ Faculty performance	**YES**
Grievance Redressal mechanism for Faculty, staff and students	**YES**
Establishment of Anti Ragging Committee	**YES**
Establishment of Online Grievance Redressal Mechanism	**Refer to https://cusat.ac.in/student/grievances**
Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University	**YES**
Establishment of Internal Complaint Committee (ICC)	**YES**
Establishment of Committee for SC/ST	**YES**
Internal Quality Assurance Cell	**YES**

6. Programmes

Name of Programmes approved by AICTE

B.Tech Naval Architecture and Ship Building

M.Tech Computer Aided Structural Analysis and Design

NBA ACCREDITATION STATUS	
Programmes/ Courses accredited	**Nil**
Applied for accreditation	**B.Tech. (Naval Architecture and Shipbuilding)**



NAAC ACCREDITATION STATUS	
Accredited	**Accredited with A Grade**

For each Programme the following details are to be given(Preferably in Tabular form):

Name	**B.Tech Naval Architecture and Ship Building**
Number of seats	40
Duration	8 Semesters
Cut off marks/rank of admission during the last three years	**2021 B.Tech Admission (Gen Quota)** Min Rank- 77 Max rank- 7065
Placement Facilities	Yes
Campus placement in last three years with minimum salary ,maximum salary and average salary	Min Salary-1.2 Lakhs INR Max Salary-14.6 Lakhs INR

Name	**M.Tech**
Number of seats	18
Duration	4 Semesters
Cut off marks/rank of admission during the last three years	**2020 M.Tech Admission (Gen Quota)** Min Rank- 26 Max rank- 207
Placement Facilities	Yes
Campus placement in last three years with minimum salary ,maximum salary and average salary	



7. Faculty

Name of the Full-time teacher	PAN	Designation	Year of appointment	Nature of appointment (Against Sanctioned post, temporary, permanent)	Total years of Experience in the same institution
Dr. Satheesh Babu P K	AAHPS6113M	Associate Professor & Head	2021	**Permanent**	0.9
Dr. Mariamma Chacko	ABBPC4499H	Professor	1990	**Permanent**	31
Dr. K Sivaprasad	ABNPK0076A	Professor	1994	**Permanent**	27
Dr. A Mathiazhagan	ACHPM4181H	Professor	1994	**Permanent**	27
Dr.Sudheer C.B.	AOZPS7552N	Associate Professor	2001	**Permanent**	20
Dr.Rajesh P Nair	AOVPN3424J	Assistant Professor	2015	**Permanent**	6
Dr.Manoj T. Issac	ACBPI0855L	Assistant Professor	2015	**Permanent**	6
Anoop C	AOCPC6938D	Assistant Professor	2020	**Permanent**	1.25
Aravind K.R	CINPR5729Q	Assistant Professor	2020	**Permanent**	1.25
Mohammed Ashiqu	BWKPA0545D	Assistant Professor	2020	**Permanent**	1.25
Akram.P.A	ANPPA6011K	Assistant Professor	2020	**Permanent**	1.25
Dr. Favas T.K	AEOPT6263N	Assistant Professor	2020	**Permanent**	1.25
ADJUNCT FACULTIES					
Name of the Full-time teacher	**PAN**	**Designation**	**Year of appointment**	**Nature of appointment**	**Total years of Experience in the same institution**



Dr. D. D. Ebenezer	AABPE0747M	**Adjunct Faculty**	2021	**Adjunct Faculty**	1 year 2 Months
Dr. C. B. Sudheer	AOZPS7552N	**Adjunct Faculty**	2021	**Adjunct Faculty**	20 years 8 months
CONTRACT FACULTIES					
Name of the Full-time teacher	**PAN**	**Designation**	**Year of appointment**	**Nature of appointment)**	**Total years of Experience in the same institution**
Dr. Beena Mary John	ARDPB7048P	Assistant Professor	2019	Contract	2

Number of Faculty employed and left during the past three years

Name of the Full-time teacher	**PAN**	**Designation**	**Year of appointment**	**Nature of appointment**	**Experience in years**	**Last year of service**
Dr. Jayaram S	AMCPS1300H	Assistant Professor	2019	Contract	6	2020
Smt. Shantamma	ALYPR6930K	Assistant Professor	2010	Contract	10	2019
Goutham	ATSPV7593G	Assistant Professor	2017	Contract	1	2018
Najdan Waris C P	BCZPN3356C	Assistant Professor	2019	Contract	1.5	2021



Permanent Faculty : Student Ratio

Year	Academic year (2021-2022)	Academic year (2020-2021)	Academic year (2019-2020)
U.G. PROGRAMME			
First year	40	40	40
second year	40	40	40
Third year	40	40	40
fourth year	40	40	40
Total no of students in UG Pgm	160	160	160
P.G. PROGRAMME			
First Year	18	18	18
Second year	18	18	18
Total no of students in P.G Pgm	36	36	36

Total No. of Students in the Department	**UG + PG** = 140+36=196	**UG + PG** = 140+36=196	**UG + PG** = 140+36=196
No. of Faculty in the Department	15	15	11
Student Faculty Ratio (SFR)	196/15=13	196/15 =13	196/11 =18
Average SFR	(13+13+18)/3= 15		



8. Profile of HOD

DR.SATHEESH BABU P K

Designation: Associate Professor

Date of Joining at CUSAT: 14-09-2021

Professional Experience:

29 years of Professional experience



Contact Details:

Dept of Ship Technology

Cochin University, Kochi-22

Pin Code -682022

(Ph:Office+91-0484-575714

(Mob.+91-9946063772

Email: satheeshbabu@cusat.ac.in / pksatheeshbabu@yahoo.com

Academic Background:

B.Tech : Naval Architecture and Ship Building, Cochin University of Science and Technology

M.Tech : Corrosion Science and engineering, IIT Bombay

Ph.D in Technology (Corrosion Assessment and Monitoring of of Ship Structure - Cochin University

PG Diploma in Management - IGNOU

PG Diploma in Naval Construction - IIT Delhi

Areas of Interest:

Hydrodynamics, Structural Design, Materials Technology, Corrosion Engineering, Welding Technology



8. Profile of Faculty

Name; Dr. SATHEESH BABU P K



Designation: Professor		Department	Dept. of Ship Technology
Date of Birth		Unique ID	
Educational Qualifications			
Work Experience (in years)	Teaching :	Research :	Industry :Nil
	Others:		
Area of Specialization			
Courses taught (Under Graduate Level)			
Courses taught (Post Graduate Level)			
Research Publications (No. of Papers) In Journals	National:	International:	
Research Publications (No. of Papers) In Conferences	National:	International:	
Research Guidance (Number of Students)	Master:	Completed:	Ongoing:
	Ph.D.	Completed:	Ongoing:
Projects Carried out			
Patents	Filed: Nil	Granted: Nil	
Technology Transfer			
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	2 Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE'21) Dr. Beena Mary John | Dr. Favas T.K | Dr. Satheesh Babu P.K		



Name

Dr Mariamma Chacko



Designation	Professor	Department	Ship Technology
Date of Birth	20-07-1961	Unique ID	1-7351657148
Educational Qualifications	B.Tech, M.Tech, Ph. D		
Work Experience (in years)	Teaching : 31	Research : 23	Industry :
	Others:		
Area of Specialization	Computer Engineering		
Courses taught (Under Graduate Level)	Electrical Engineering and Electronics, Instrumentation, Electrical systems onboard ships and shipyards, Computer Programming		
Courses taught (Post Graduate Level)	Microprocessors (8085 & 8086)		
Research Publications (No. of Papers) In Journals	National: 1	International: 18+2(in press)	
Research Publications (No. of Papers) In Conferences	National: 1	International: 8	
Research Guidance (Number of Students)	Master	Completed:	Ongoing:
	Ph.D.	Completed:1	Ongoing:9
Projects Carried out	1		
Patents	Filed:	Granted:	
Technology Transfer			
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	1. "Randomized Agent Based Model for Mobile Customer Retention Behaviour Prediction", EAI/ Springer Innovations in Communication and Computing, Book Chapter 28, Print ISBN: 978-3-030-19561-8, Springer International Publishing, Jan 2020.		



Name
K Sivaprasad



Designation	**Professor**	Department		**Ship Technology**
Date of Birth	**13-11-1965**	Unique ID : 1-9475878045		
Educational Qualifications	**PhD, M Sc, B Tech.**			
Work Experience (in years)	Teaching :27	Research :16		Industry :5
	Others:			
Specialization	**Naval Architecture**			
Courses taught (UG Level)	**Naval Architecture and shipbuilding**			
Courses taught (PG Level)	**N A**			
Research Publications (No.) -Journals	National: **6**		International: **13**	
Research Publications (No)Conference	National: **14**		International: **21**	
Research Guidance (No of Students)	Master **3**	Completed: **3**		Ongoing:
	Ph.D. 10	Completed: 3		Ongoing: 7
Projects Carried out	**2**			
Patents	Filed: NIL		Granted: NIL	
Technology Transfer	**NIL**			
Books published	**NIL**			



Name; Dr. A.
MATHIAZHAGAN



Designation: Professor		Department	Dept. of Ship Technology
Date of Birth	22-05-1969	Unique ID	U10087
Educational Qualifications			
Work Experience (in years)	Teaching : 27	Research :10	Industry :Nil
	Others:		
Area of Specialization	Materials Technology		
Courses taught (Under Graduate Level)	Material Science, Joining Techniques in ship building, Ship Building Materials, Marine pollution prevention and Management		
Courses taught (Post Graduate Level)	Marine corrosion and Prevention		
Research Publications (No. of Papers) In Journals	National: 16	International: 8	
Research Publications (No. of Papers) In Conferences	National: 14	International: 18	
Research Guidance (Number of Students)	Master:	Completed: 14	Ongoing:
	Ph.D.	Completed:6	Ongoing:8
Projects Carried out			
Patents	Filed: Nil	Granted: Nil	
Technology Transfer			
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	2 Nos 1. Edited book on Marine corrosion and its prevention published ,DPRP Publication (ISBN: 978- 93-80095-93-0) 2014 2.Corrosion of Steel Ship Structure ,APS Publication (ISBN: 978-813-937872-6-7)		



Name	Dr. D. D. Ebenezer		
Designation	Adjunct Faculty	Department	Ship Technology
Date of Birth	12.12.1960	Unique ID	
Educational Qualifications	B. Tech. Naval Architecture. IIT Madras. Gold medalist. 1983. M. S. Ocean Engineering. Univ. Rhode Island, USA. 1986. Ph. D. Ocean Engineering. Univ. Rhode Island, USA. 1990.		
Work Experience (in years)	Teaching: 1 year	Research:30 years	Industry: Nil
	Others:	Associate Editor of the Journal of the Acoustical Society of America since 2012.	
Area of Specialization	Vibration of fluid-loaded structures, Naval Architecture, hydrodynamics, SONAR		
Courses taught (Under Graduate Level)	Stability of Ships, Propulsion of Ships		
Courses taught (Post Graduate Level)	Advanced Engineering Mathematics		
Research Publications (No. of Papers) In Journals	National: 5	International: 41	
Research Publications (No. of Papers) In Conferences	National: 42	International: 40	
Research Guidance (Number of Students)	Master	Completed: 11	Ongoing: 09
	Ph.D.	Completed: 6	Ongoing: 1
Projects Carried out	Several classified defence projects at NPOL, DRDO, Kochi.		
Patents	Filed: 1	Granted: 0	
Technology Transfer	Several classified defence technology transfers		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	Proceedings of the International Conference on Sonar-Sensors & Systems (ICONS - 2002). H. R. S. Sastry, D. D. Ebenezer, T. V. S. Sundaram (Editors) ISBN:9788177643817, 8177643819 Page count:1,066 Published:2002 Publisher:Allied Publishers Language:English		



Name
Dr C B Sudheer



Designation	Associate Professor	Department	Ship Technology
Date of Birth	17-03-1961	Unique ID	1-478921832
Educational Qualifications	Ph. D		
Work Experience (in years)	Teaching : 27	Research : 5	Industry :
	Others:		
Area of Specialization	Naval Architecture		
Courses taught (Under Graduate Level)	Ship Design, Computer Aided Ship Design, Computer Aided Design and Drafting, Introduction to Ship Technology, Production Management & OR		
Courses taught (Post Graduate Level)	Computer Aided Design in Offshore Engineering		
Research Publications (No. of Papers) In Journals	National: 10	International: 4	
Research Publications (No. of Papers) In Conferences	National: 1	International: 3	
Research Guidance (Number of Students)	Master	Completed: 15	Ongoing:
	Ph.D.	Completed: NIL	Ongoing: 6
Projects Carried out	3		
Patents	Filed: -----	Granted: ------	
Technology Transfer			
Number of Books published with details	NIL		



Name

RAJESH P NAIR



Designation	ASSISTANT PROFESSOR	Department	SHIP TECHNOLOGY
Date of Birth	08/01/1981	Unique ID	1-7357488705
Educational Qualifications	Ph.D.		
Work Experience (in years)	Teaching :8	Research :7	Industry :0
	Others:		
Area of Specialization	FEM,IMPACT MECHANICS		
Courses taught (Under Graduate Level)	Engg. Mechanics, mechanics of solids, applied thermodynamics, design of machine elements, analysis of structures, production management and operations research		
Courses taught (Post Graduate Level)	FRACTURE MECHANICS, FEM APPLIED TO OFFSHORE ENGG.		
Research Publications (No. of Papers) In Journals	National: 1	International: 10	
Research Publications (No. of Papers) In Conferences	National: 13	International: 35	
Research Guidance (Number of Students)	Master :40	Completed: 35	Ongoing: 5
	Ph.D. 3	Completed:0	Ongoing:4
Projects Carried out	2		
Patents	Filed: 0	Granted:0	
Technology Transfer	MENTOR FOR STUDENTS :" UNIVERSAL HUMAN VALUES" INDUCTION PROGRAMME		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc	0		



Name	Manoj T. Issac		



Designation	Assistant Professor	Department	Ship Technology
Date of Birth	16/05/1977	Unique ID	1-7357488528
Educational Qualifications	Ph.D. (*Ocean & Naval Architecture Engineering*), Memorial University of Newfoundland, Canada M. Tech (*Ocean Engineering*), IIT Madras B. Tech (*Civil Engineering*), T.K.M College of Engineering, University of Kerala		
Work Experience (in years)	Teaching : 7	Research : 8	Industry : NIL
	Others:		
Area of Specialization	Hydrodynamics of Unmannend Underwater Vehicles Dynamics of Offshore Structures		
Courses taught (Under Graduate Level)	Resistance of Ships Fluid Mechanics Marine Hydrodynamics Lab		
Courses taught (Post Graduate Level)	Marine Hydrodynamics Ocean Waves & Effects Design of Offshore Structures		
Research Publications (No. of Papers) In Journals	National:	International: 3	
Research Publications (No.)Conferences	National: 1	International: 10	
Research Guidance (Number of Students)	Master	Completed: 19	Ongoing: 5
	Ph.D.	Completed: NIL	Ongoing: 4
Projects Carried out			
Patents	Filed: NIL	Granted: NIL	
Technology Transfer	NIL		
Number of Books published	NIL		



Name	Anoop Chithrasenan		



Designation	Assistant Professor	Department	Ship Technology
Date of Birth	29th May 1986	Unique ID	I-9450404876
Educational Qualifications	BTech (Naval Architecture and Ship Building) MS (Naval Architecture)		
Work Experience (in years)	Teaching :0.5	Research :Nil	Industry :11.5
	Others: Nil		
Area of Specialization	Naval Architecture, Marine Hydrodynamics		
Courses taught (Under Graduate Level)	Controllability of Ships Structural Design of Ships Ship Production Technology		
Courses taught (Post Graduate Level)	N.A.		
Research Publications (No. of Papers) In Journals	National: Nil	International: Nil	
Research Publications (No. of Papers) In Conferences	National: Nil	International: Nil	
Research Guidance (Number of Students)	Master	Completed: Nil	Ongoing:Nil
	Ph.D.	Completed:Nil	Ongoing:Nil
Projects Carried out	Nil		
Patents	Filed:Nil	Granted:Nil	
Technology Transfer	N.A.		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication..)	Nil		



Name	Aravind K.R		
Designation	Assistant Professor	Department	Ship Technology
Date of Birth	27th March 1990	Unique ID	I-9432616062
Educational Qualifications	B.E. (Naval Architecture and offshore Engineering) M.Tech (Marine Engineering)		
Work Experience (in years)	Teaching : 3 years	Research :Nil	Industry :2.5 Years
	Others: Nil		
Area of Specialization	Naval Architecture, Marine Engineering		
Courses taught (Under Graduate Level)	Marine Engineering Marine Corrosion and prevention Experimental techniques for ships and models		
Courses taught (Post Graduate Level)	N.A.		
Research Publications (No. of Papers) In Journals	National: Nil	International: Nil	
Research Publications (No. of Papers) In Conferences	National: Nil	International: Nil	
Research Guidance (Number of Students)	Master	Completed: Nil	Ongoing:Nil
	Ph.D.	Completed:Nil	Ongoing:Nil
Projects Carried out	Nil		
Patents	Filed:Nil	Granted:Nil	
Technology Transfer	N.A.		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	Nil		



Name	Mohammed Ashiqu		
Designation	Assistant Professor	Department	Department of Ship Technology
Date of Birth	10th July 1994	Unique ID	I-9444775672
Educational Qualifications	M. Tech & B. Tech (Ocean Engineering and Naval Architecture)		
Work Experience (in years)	Teaching :0.5 years	Research : Nil	Industry : 1.75
	Others: Nil		
Area of Specialization	Naval Architecture, Marine Hydrodynamics, Powering & Propulsion, Structural Analysis of ships		
Courses taught (Under Graduate Level)	Resistance of Ships Propulsion of Ships Structural Analysis of Ships Joining Techniques in Ship building Industry		
Courses taught (Post Graduate Level)	N.A.		
Research Publications (No. of Papers) In Journals	National: Nil	International: Nil	
Research Publications (No. of Papers) In Conferences	National: Nil	International: Nil	
Research Guidance (Number of Students)	Master	Completed: Nil	Ongoing: Nil
	Ph.D.	Completed: Nil	Ongoing: Nil
Projects Carried out	Nil		
Patents	Filed: Nil	Granted: Nil	
Technology Transfer	N.A.		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	Nil		



Name	Akram P. A.		
Designation	Assistant Professor	Department	Department of Ship Technology
Date of Birth	25/07/1987	Unique ID	1-9451036678
Educational Qualifications	B. Tech Civil Engineering M. Tech Civil Engineering (Offshore Structures)		
Work Experience (in years)	Teaching : 0.5	Research : Nil	Industry :7.9
Area of Specialization	Others: Finite Element Analysis Offshore Structures		
Courses taught (Under Graduate Level)	Engineering Mechanics Engineering Graphics Machine Drawing Finite Element Analysis		
Courses taught (Post Graduate Level)	Nil		
Research Publications (No. of Papers) In Journals	National: Nil	International: Nil	
Research Publications (No. of Papers) In Conferences	National: Nil	International: Nil	
Research Guidance (Number of Students)	Master	Completed: Nil	Ongoing: 2
	Ph.D.	Completed: Nil	Ongoing: Nil
Projects Carried out	Nil		
Patents	Filed: Nil	Granted: Nil	
Technology Transfer	Nil		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication etc.)	Nil		



Name	Dr Favas T K		
Designation	Assistant Professor	Department	Ship Technology
Date of Birth	01/10/1980	Unique ID	1-9449356102
Educational Qualifications	M.Tech, Ph.D		
Work Experience (in years)	Teaching : 9	Research : 0	Industry :2.5
	Others: 0		
Area of Specialization	Computational Fluid Flow and Heat Transfer		
Courses taught (Under Graduate Level)	Computational Fluid Dynamics in Marine Technology, Applied Thermodynamics, Design of Machine Elements, Material Science, Computer Programming, Computational Methods in Engineering, Environmental Studies, Fluid Mechanics, Advanced Mechanics of Flow, Design of Heat Transfer Equipments, Refrigeration and Air-Conditioning, Advanced Mechanics of Solids, Metal Forming, Principles of Management		
Courses taught (Post Graduate Level)	Analytical Methods in Heat Transfer – II (Convective Heat Transfer), Advanced Instrumentation, Non-conventional Energy Systems, Advanced Fluid Mechanics, Advanced Refrigeration Systems		
Research Publications (No. of Papers) In Journals	National: 1	International: 3	
Research Publications In Conferences	National: 3	International: 13	
Research Guidance (Number of Students)	Master	Completed: 0	Ongoing:0
	Ph.D.	Completed: 0	Ongoing:2
Projects Carried out	Numerical Prediction of Hotspots and Entropy Generation in Energy Generating Components Cooled by Nanofluids /Liquid Metals by considering Temperature Dependency of Thermo-Physical Properties (Duration : 2years Amount Rs : 1,00,000) – under Seed Money for New Research Initiative (Ongoing)		
Patents	Filed:0	Granted:0	
Technology Transfer	Nil		
Number of Books published with details	1 Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE'21) Dr. Beena Mary John | Dr. Favas T.K | Dr. Satheesh Babu P.K		



Name	Dr. Beena Mary John		
Designation	Assistant Professor (on Contract)	Department	Department of Ship Technology
Date of Birth	20.02.1986	Unique ID	1-7343241818
Educational Qualifications	B.Tech (Civil Engineering), M.Tech (Computer Aided Structural Analysis and Design) Ph.D (Applied Mechanics and Hydraulics)		
Work Experience (in years)	Teaching : 3.5	Research : 1.5	Industry : 2.5
	Others: Nil		
Area of Specialization	Applied Mechanics, Marine Structures, Coastal Engineering.		
Courses taught (Under Graduate Level)	Engineering Mechanics Fluid Mechanics I Fluid Mechanics II		
Courses taught (Post Graduate Level)	Dynamics of Structures Advanced Structural Analysis		
Research Publications (No. of Papers) In Journals	National: 1	International: 4	
Research Publications (No. of Papers) In Conferences	National: 1	International: 9	
Research Guidance (Number of Students)	Master	Completed: 6	Ongoing: 4
	Ph.D.	Completed:Nil	Ongoing:Nil
Projects Carried out	Nil		
Patents	Filed:Nil	Granted:Nil	
Technology Transfer	Nil		
Number of Books published with details (Name of book, Publisher with ISBN, year of publication..)	1 Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE'21) Dr. Beena Mary John | Dr. Favas T.K | Dr. Satheesh Babu P.K		



9. Fee

Btech-NA & SB	Fee structure for 2021 Admission							
	SEMESTER FEES							
SEMESTER NO	I	II	III	IV	V	VI	VII	VIII
Fee Particulars								
Matriculation Fee	190							
Cost of Application for matriculation	120							
Recognition *								
Cost of Application for recognition *								
Quasi Uty.	100		100		100		100	
Medical Inspection	75		75		75		75	
Sports	330		330		330		330	
Students Aid Fund	130		120		120		120	
Uty. Union	265		265		265		265	
Tuition	10215	10215	10215	10215	10215	10215	10215	10215



Library	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**
Laboratory	**515**	**515**	**515**	**515**	**515**	**515**	**515**	**515**
Stationery	**390**	**390**	**390**	**390**	**390**	**390**	**390**	**390**
Course Material Fee								
Computer Fee	**640**	**640**	**640**	**640**	**640**	**640**	**640**	**640**
training	**515**	**515**	**515**	**515**	**515**	**515**	**515**	**515**
Placement Fee	**310**	**310**	**310**	**310**	**310**	**310**	**310**	**310**
SNAS	**255**	**255**	**255**	**255**	**255**	**255**	**255**	**255**
Special Fee								
University Fee								
Students Co-curricular	**130**		**130**		**130**		**130**	
Students Association Fee								
Caution Deposit - Lab	**642.5**							
Caution Deposit - Library	**642.5**							
Publication								
PTA	**1925**							
Any other items not specified above, DDF Etc.								



Fee for arts & culture	**265**		**265**		**265**		**265**	
Exam registration	**75**	**75**	**75**	**75**	**75**	**75**	**75**	**75**
Total fee for theory examination	**1530**	**1530**	**1530**	**1530**	**1530**	**1530**	**1020**	**1410**
Total fee for practical examination								
Marklist Fee	**130**	**130**	**130**	**130**	**130**	**130**	**130**	**130**
pc								**330**
dc								**1260**
TOTAL	**19590**	**14775**	**16060**	**14775**	**16060**	**14775**	**15550**	**16245**

	2021 ADMISSION(M.Tech CASAD)							
Particulars	**Ist Semester**		**IInd Semester**		**IIIrd semester**		**IVth semester**	
	Others	**Sponsored**	**Others**	**Sponsored**	**Others**	**Sponsored**	**Others**	**Sponsored**
tui	**19155**	**24315**	**19155**	**24315**	**19155**	**24315**	**19155**	**24315**
lib	**330**	**330**	**330**	**330**	**330**	**330**	**330**	**330**
lab	**515**	**515**	**515**	**515**	**515**	**515**	**515**	**515**
sta	**390**	**390**	**390**	**390**	**390**	**390**	**390**	**390**
med	**75**	**75**			**75**	**75**		



sports	330	330			330	330		
quasi	100	100			100	100		
uuf	265	265			265	265		
co curricular	130	130			130	130		
saf	130	130			130	130		
PTA	1285	1285						
cau	642.5	642.5						
cau	642.5	642.5						
mat	190	180						
cost of appli for mat	120	115						
fee for arts	265	265			265	265		
Exam fee								
Appln	75	75	75	75	75	75	75	75
Marklist	130	130	130	130	130	130	130	130
Exam fee	3225	3225	3225	3225	1935	1935	1935	1935
pc							330	330
DC							1260	1260



regn for degree								
Grand total	**27995**	**33140**	**23820**	**28980**	**23825**	**28985**	**24120**	**29280**

Year	Name of the scheme	Number of students benefited by government scheme and amount	
		Number of students	Amount p.m/student
2019	GATE Scholarship for PG Students	6	Rs. 12400/-
2019	UJRF for PhD Students	1	Rs. 20000/-
2019	Online Centralised System for Disbursement of Scholarships/Schemes for all Pre-matric and Post-matric Students of SC, ST & OBC community in the state of Kerala.	19	Rs.191570/- (Total)
2019	Financial Assistance to students for participating in seminars/conferences/Workshops organised by foreign institution	1	RS.56962/-
2020	UJRF for PhD Students	2	Rs. 20000/-
2021	UJRF for PhD Students	5	Rs. 20000/-

10. Admission

• Mention the admission test being followed, name and address of the Test Agency/State Admission Authorities and its URL (website)

PLEASE REFER TO THE ADMISSION PORTAL OF CUSAT -https://admissions.cusat.ac.in/

• Number of seats allotted to different Test Qualified candidates separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test etc.)



Year - 1 (2019)				
Programme name	**Programme Code**	**Number of seats available/sanctioned**	**Number of eligible applications received**	**Number of Students admitted**
B.Tech Naval Architecture and Ship Building	215	40	20876	40
M.Tech Computer Aided Structural Analysis and Design	457	18	264	18
Year - 2 (2020)				
Programme name	**Programme Code**	**Number of seats available/sanctioned**	**Number of eligible applications received**	**Number of Students admitted**
B.Tech Naval Architecture and Ship Building	215	40	24204	40
M.Tech Computer Aided Structural Analysis and Design	457	18	267	18
Year - 3 (2021)				
Programme name	**Programme Code**	**Number of seats available/sanctioned**	**Number of eligible applications received**	**Number of Students admitted**
B.Tech Naval Architecture and Ship Building	215	40	17273	36
M.Tech Computer Aided Structural Analysis and Design	457	18	286	16

11. Admission Procedure

PLEASE REFER TO THE ADMISSION PORTAL OF CUSAT -https://admissions.cusat.ac.in/

12. Criteria and Weightages for Admission

- **PLEASE REFER TO THE ADMISSION PORTAL OF CUSAT** -https://admissions.cusat.ac.in/



13. List of Applicants

• List of candidate whose applications have been received along with percentile/percentages core for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats (merit wise)

Year	Programme name	Programme Code	Number of seats available/sanctioned	Number of eligible applications received	Number of Students admitted
2019	B.Tech NA&SB	215	40	20876	40
	M.Tech CASAD	457	18	264	18
2020	B.Tech NA&SB	215	40	24204	40
	M.Tech CASAD	457	18	267	18
2021	B.Tech NA&SB	215	40	17273	36
	M.Tech CASAD	457	18	286	16



13. B.Tech 2021 Admission

Sl No	Register No	Name
1	112406	ABHIRAM GOPAL
2	143044	Abhishek Pandey (N)
3	115765	ABHISHEK SANKAR LAKSHMAN
4	126420	ADEEB T A
5	109697	ADITHYA NARAYANAN.J
6	111276	ADITHYAN C A
7	126879	ADITHYAN M K
8	119303	ADWAITH.K
9	143051	Akash Kumar (N)
10	103237	ANDREWS GEO
11	138138	Aravind S
12	117000	ARSHAD MUHAMMED K
13	102857	Ashwin Vinu
14	120431	ASWIN A
15	101872	ASWIN S
16	122204	ATHUL KUNJUMON
17	130998	DEVIKA.K.B

18	106386	DHANALA K
19	143030	Jalaj (N)
20	143048	Kudikala Aravind (N)
21	137572	Mahendh Vijayakumar
22	111211	MAHESWAR R
23	110814	Mohammed Shibil kk
24	122591	NANDANA ANIL
25	119915	NAVANEETH S
26	143035	Nikhil Singh Sumbria (N)
27	102942	PARVATHY K P
28	110896	PAVAN DWIVEDI
29	102090	ROHIT RATHEESH
30	119249	SABIR N
31	143053	Sagar Singh(N)
32	143038	Shailender Singh(N)
33	111069	SHIVA S MOHAN
34	115692	Sourab P
35	113398	SUHAIL MOHAMMED ARIF
36	104852	UGIN THOTTUNGAL

14. Results of Admission Under Management seats/Vacant seats

• Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over) •

Score of the individual candidate admitted arranged in order or merit • List of candidate who have been offered admission

Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate

• List of the candidate who joined within the date, vacancy position in each category before operation of waiting list

15. Information of Infrastructure and Other Resources Available

Sl No	Description	Size (m2)
1	B. Tech Class room I	84.24
2	B. Tech Class room II	84.24
3	B. Tech Class room III	84.24
4	B. Tech Class room IV	84.24
5	Tutorial Classroom	41.76
6	Research Scholars Room	20.88
7	Project Room	20.88
8	Naval Construction Wing Room	41.76
9	Computer Room - II	104.4
10	Computer Room - I	
11	Class NK - Drawing Hall	140.4
12	Drawing Hall - I	140.4
13	Fluid Mechanics Lab	75
14	Carpentry Shop	75
15	Mechanical Workshop	187.5
16	Model Making Lab	56.16
17	Scrap Room	31.05
18	Material Testing Lab	187.5
19	Machine Shop	75



Office : 532026
Phone : Personal : 540170
Fax : 557831

MUNICIPAL COUNCIL KALAMASSERY

CHANGAMPUZHA NAGAR P.O., ERNAKULAM DIST.,
KERALA, PINCODE : 682 033

File No.R2/3563/17 Date: 10.03.2017

OCCUPANCY CERTIFICATE

This is to certify that as per the assessment register maintained by the Municipality, the building, bearing No. XXIII/445 is owned by the Registrar, Cochin University of Science and Technology (CUSAT).

The details of the Institute existing in this building is as given below.

Sl No.	Name of the Institution	Old Building No.	New Building No.	Purpose
1	Department of Ship Technology, CUSAT	XVIII/135	XXIII/445	Education

This building is in use and occupied for the above mentioned purpose.

This certificate is issued to produce before the All India Council of Technical Education (AICTE), New Delhi for the purpose of approval of the Institute.

MUNICIPAL COUNCIL

Secretary
Kalamassery Municipality

To
Professor and Head,
Department of Ship Technology
CUSAT

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SHIP TECHNOLOGY
COCHIN

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാല
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

എഞ്ചിനീയറിംഗ് വകുപ്പ്
ENGINEERING DEPARTMENT

കൊച്ചിൻ യൂണിവേഴ്സിറ്റി പി. ഒ.
കൊച്ചി - 682 022
COCHIN UNIVERSITY P. O.
KOCHI - 682 022
ഫോൺ / Phone: 0484-2575319

നമ്പർ / No...UEU/AICTE/20-21

തീയതി / Date...25.03.2021

CERTIFICATE

This is to certify that the buildings of *Department of Ship Technology, Cochin University of Science and Technology* are provided with the following safety measures:

1. **3 numbers of extinguishers are installed at every floor of main building.**
2. **Every exit, exit access or exit discharge are continuously maintained free of all obstructions or impediments to full use in case of fire or other emergency.**
3. **Retro reflective signage are provided for escape routes at suitable height.**
4. **Evacuation drill are conducted for each building quarterly.**

It is also certified that to avoid stampede and to manage any emergency properly, the Institution is having a Standing Fire Order (Document containing established procedures required to handle fire and emergency situations in which duties and responsibilities of various Authorities and Agencies are included).

UNIVERSITY ENGINEER

Hostel Facilities :

Hostel Accomodation for around 600 males and 700 female students is available in campus for undergraduate / post graduate & research students.

- Sanathana, Siberia, Sarovar and Post Metric hostel for Boys, Men's hostel
- Aiswarya, Athulya, Anaswara and Post Metric hostel for Girls, OBS Post Metric Hostel for Girls - Ladies hostel

Library

- 14140 books available in the library.
- 625 e books available
- List of online National/ International Journals & e - resources subscribed
    - ASCE
    - ASME
    - ACS
    - American Institute of Physics
    - Institute for Studies in Industrial Development (ISID) Database
    - JGate Plus (JPCC)
    - JSTOR
    - MathSciNet
    - Oxford University Press
    - Springer Link 1700 collection and Nature Journal
    - Taylor and Francis
    - Web Science

Laboratory and Workshop

MAJOR EQUIPMENT LIST		
Sl.No.	**Name of Equipments**	**No.**
1	**Engine Models**	**1 set**
2	**Welding Motor Generator**	**2**
3	**Shaping Machine**	**1**
4	**Lathe**	**1**
5	**Lathe**	**1**



6	Gas Welding Equipment & Accessories	1 set
7	EIFCO Drilling Machine	1
8	Power Hacksaw	1
9	Arc Welding Machine Set	1 set
10	Welding Rectifier	1
11	Surface Grinder	1
12	Impact Testubg Nacgube (M.No: C-83086)	1
13	Petrol Engine	1
14	Bench Grinder	1
15	KAC make Compressor	1
16	Pillar Type Drilling Machine (Cap. 3/4")	1
17	Air Compressor	1
18	Bench Grinder	1
19	Universal Milling Machine	1
20	Flame Cutting Machine	1
21	Bench Type Drilling Machine	1
22	Planer	1
23	Bench Grinder 0.5 HP	1



24	Rockwell hardness Tester Mechanical	1
25	Hydarulic Power Hacksaw Machine	1
26	10 KVA Foot Pedal Operated Portable Spot Welding Machine	1
27	Sheet Bending Machine 2"	1
28	Tig Welding Machine 250 AC/DC	1
29	Portable Arc Welding Machine	1
30	Mig Welding Machine	1
31	Pipe Friction Apparatus	1
32	Venturimeter & Orificemeter	1
33	2-Stage Reciprocating Air Compressor Test Rig	1
34	Flow Through Notch Apparatus	1
35	Orifice Apparatus	1
36	Reynold's Apparatus	1
37	Inverter Welding Machine	1
38	All Purpose Drilling Machine	1
39	Extensometer EKSOM 03	1
40	Rebound Hardness Testing Apparatus	1
41	Impact Testing Machine EKSOM-09	1



42	Universal Testing Machine (Cap.100 tonne)	1
43	Electrochemical Workstation CH1608E	1
44	Brinell Hardness Testing Machine (cap.3000KgF)	1
45	Spring Testing Machine 2000KgF (Manual)	1
46	Dewalt Chopsaw D 28871	1
47	Submerged Arc Welding Machine	1
48	Fly Press	1
49	Centrifugal Pump Test Rig	1
50	Light duty Electric drill	1
51	Circular Saw(Hand type)	1
52	Drilling Machine	1
53	KAC make Compressor	1
54	Shearing Machine	1
55	Universal Working Machine	1
56	Vertical Band Saw	1
57	Jig Saw	1
58	Chain Mortiser	1
59	Wood working Lathe	2



60	**Basic Router**	**1**

List of Experimental Setup in each Laboratory/Workshop

- Fluid Mechanics Lab
- Carpentry and Model making shop
- Welding & Material Testing Lab
- Machining Shop
- Fitting Shop
- Marine Engine Model Lab
- Electrochemical Lab








Computing Facilities Internet Bandwidth

• Major software packages available

- Catia
- Abaqus
- StarCCM
- Matlab
- Orca Flex

• Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc.)

- The following rooms are equipped with internet and AV facilities which can be used to conduct online meetings / webinars and workshops:
  - Conference Room
  - Seminar room
  - Classrooms

• Facilities for conduct of classes/courses in online mode (Theory & Practical)



All classrooms are equipped with internet and AV facilities for the conduct of online classes. In addition, the department ensures the availability of cameras, microphones, tripods, graphic tablets which ensures easy handling of online classes.

List of facilities available

• Games and Sports Facilities

- The university campus comprises grounds for every sports including football, cricket, badminton etc.

• Extra-Curricular Activities

- National Service Scheme
- Different activities carried out under the student body, Society of Naval Architecture Students (SNAS). It includes :
  - Webinars
  - Workshops
  - Skill development programs
  - Software clubs

16. Enrolment and placement details of students in the last 3years

Year	Name of student placed	Program graduated from	Name of the employer
2018	Mohammed Shanas P K	B.Tech NA & SB	CyberMarine
2018	Arjun N S	B.Tech NA & SB	CyberMarine
2018	Aquib S Javed	B.Tech NA & SB	CyberMarine
2018	Jasim Dilshad	B.Tech NA & SB	CyberMarine
2018	Anoop K.K	B.Tech NA & SB	CSL Kochi
2018	Aboobacker Shamjad P	B.Tech NA & SB	Aries Marine



2018	Jeswin George	B.Tech NA & SB	Aries Marine
2018	Peter P Areeckal	B.Tech NA & SB	Aries Marine
2018	Jasim Dilshad	B.Tech NA & SB	Reliance Naval EngineeringLtd.(Apprentice Trainee)
2018	Abdul Nadeem	B.Tech NA & SB	Reliance Naval EngineeringLtd. (Apprentice Trainee)
2018	Mohammed Azhar	B.Tech NA & SB	Reliance Naval EngineeringLtd.(Apprentice Trainee)
2018	Soorej Surendran	B.Tech NA & SB	Reliance Naval EngineeringLtd. (Apprentice Trainee)
2018	Akhil D	B.Tech NA & SB	Reliance Naval EngineeringLtd. (Apprentice Trainee)
2018	Rahul S.G	B.Tech NA & SB	Albwardy,Dubai
2018	P.B Senthuraj	B.Tech NA & SB	Albwardy,Dubai
2019	Najih C H	B.Tech NA & SB	Cyber Marine Technologies, Mumbai
2019	Anjitha Anil	B.Tech NA & SB	Cyber Marine Technologies, Mumbai
2019	Adarsh P	B.Tech NA & SB	Cyber Marine Technologies, Mumbai
2019	Nirmal Sabu	B.Tech NA & SB	Cyber Marine Technologies, Mumbai
2019	Abdul Basith K P	B.Tech NA & SB	Cyber Marine Technologies, Mumbai
2019	Rejith R J	B.Tech NA & SB	Indian Register of Shipping, Mumbai
2019	Febin Tom	B.Tech NA & SB	Indian Register of Shipping, Mumbai



2019	P Rahul Sunil	B.Tech NA & SB	Buoyancy Consultants, Goa
2019	Vishnu Prakash	B.Tech NA & SB	Buoyancy Consultants, Goa
2019	Sujin Krishna N R	B.Tech NA & SB	Nordmarine LLC, UAE
2019	Hafiz Abdulla	B.Tech NA & SB	Nordmarine LLC, UAE
2019	Mohammed Rashid P	B.Tech NA & SB	Tata Consultancy Services
2019	Maneesh P	B.Tech NA & SB	Tata Consultancy Services
2019	Vignesh Raj	B.Tech NA & SB	Tata Consultancy Services
2019	Nafih Banna T	B.Tech NA & SB	Tata Consultancy Services
2019	Aswin Mohan	B.Tech NA & SB	Tata Consultancy Services
2019	Arjun J	B.Tech NA & SB	Tata Consultancy Services
2019	Vignesh Raj	B.Tech NA & SB	Albwardy Damen
2019	Nafih Banna T	B.Tech NA & SB	Albwardy Damen
2019	Devi Krishna P	B.Tech NA & SB	L&T Ship Building
2019	Yashwant R kamath	B.Tech NA & SB	Oshima Ship Building, Japan
2020	Mohd Rasi	B.Tech NA & SB	TCSL
2020	Nisham T	B.Tech NA & SB	TCSL
2020	Mohd Noufal KM	B.Tech NA & SB	TCSL
2020	Renjith C.K	B.Tech NA & SB	TCSL



2020	Jemin John Paleeth	B.Tech NA & SB	TCSL
2020	Noel Francis	B.Tech NA & SB	TCSL
2020	Sarang Manoj	B.Tech NA & SB	TCSL
2020	Mubashir Ahammmed T.A	B.Tech NA & SB	Cybermarine
2020	Yaseen A Iqbal	B.Tech NA & SB	Cybermarine
2020	Sreerag M.S	B.Tech NA & SB	Cybermarine
2020	Arun Gopalan	B.Tech NA & SB	Cybermarine
2020	Govind R.S	B.Tech NA & SB	IRS
2020	Geo Saj	B.Tech NA & SB	IRS
2020	Adeep Afrin	B.Tech NA & SB	GRSE
2020	Ashique M	B.Tech NA & SB	Albwardy Damen
2020	Arjun M	B.Tech NA & SB	Albwardy Damen
2020	Mohd Ashfaque Aslam	B.Tech NA & SB	Albwardy Damen
2021	Prayag Raviprakash	B.Tech NA & SB	Navgathi
2021	Athul Babu	B.Tech NA & SB	Navgathi
2021	Richard Johnson	B.Tech NA & SB	Albwardy Damen
2021	Kiran A	B.Tech NA & SB	Albwardy Damen



2021	Arjun J Prakash	B.Tech NA & SB	Albwardy Damen
2021	Muhammad Sahid	B.Tech NA & SB	Albwardy Damen
2021	Praveen Pavithran	B.Tech NA & SB	SEDS
2021	Darshan Suresh	B.Tech NA & SB	SEDS
2021	Akshay Umesh	B.Tech NA & SB	SEDS
2021	Gokul S.	B.Tech NA & SB	Capital Ship Solutions
2021	Gowtham Krishna	B.Tech NA & SB	Capital Ship Solutions
2021	Joel Thomas	B.Tech NA & SB	IR CLASS
2021	Syam sreedhar K.N	B.Tech NA & SB	IR CLASS
2021	Sidharth babu	B.Tech NA & SB	Green Ship Technologies
2021	Samuel P Sunny	B.Tech NA & SB	L&T Ship Building
2021	Nibaz Aboobacker	B.Tech NA & SB	L&T Ship Building
2021	Muhammed Harris	B.Tech NA & SB	Thome India Pvt Ltd
2021	Sanjay M V	B.Tech NA & SB	Aries Marine
2022 - Ongoing	Akhil Jayadhar	B.Tech NA & SB	Lasen & Toubro
2022 - Ongoing	Nisanth S Pai	B.Tech NA & SB	Garden Reach Shipbuilders & Engineers
2022 - Ongoing	Arjun M	B.Tech NA & SB	Garden Reach Shipbuilders & Engineers



2022 - Ongoing	John Dayas	B.Tech NA & SB	Indian Register of Shipping
2022 - Ongoing	Vishnuprasad R	B.Tech NA & SB	Indian Register of Shipping
2022 - Ongoing	Anand David	B.Tech NA & SB	Vedam Designs

17. List of Research Projects/ Consultancy Works

• Number of Projects carried out, funding agency, Grant received

Name of consultancy project	Name of the consultant	Consulting/Sponsoring agency	Year	Grants/Revenue (INR in lakhs)
Optimization of visoelastic interleaves and composite laminate thickness for high stiffness and damping	Dr. Rajesh P Nair/Dr. G.Jayalatha	Naval Physical & Oceanographic Laboratory	2017	9.59974
Analysis of Attitude of Towed Vertical Body(AATVB)	Dr. Manoj T Issac/ Dr. Senthil Prakash M N	Naval Physical & Oceanographic Laboratory	2017	9.6
Stability Tests & Approval	Dr. K Sivaprasad	Samudra Shipyard Ltd	2018	1.285
Inclining	Dr. K Sivaprasad	Lakes & Lagoons	2018	0.2
Inclining	Dr. K Sivaprasad	Kerala House Boats	2018	0.2

Drawing Approvals	Dr. K Sivaprasad	Samudra Shipyard Ltd	2018	2.2
Inclining Test	Dr. K Sivaprasad	IRE	2018	0.213
Stability Tests	Dr. K Sivaprasad	Virat Marine	2018	0.37
Drawings Approval	Dr. K Sivaprasad	Samudra Shipyard Ltd	2019	0.45
Drawings Approval	Dr. K Sivaprasad	Virat Marine Phone No: +91 9400 166 188 email: info@viraatmarine.com	2020	1
Technical Specification, Cost Estimation & GA of 60 PAX Boat	Dr. C B Sudheer	Department of Forests and Wildlife, Govt. of Kerala, Thekkady	2018	2,020.00
Consultancy services for design & Construction of 25 PAX GRP PV Solar powered electric boat	Dr. C B Sudheer	Cochin International Airport Ltd. (CIAL), Kochi Phone No: +91 484 261 0115 / +91 484 305 3000 Email: cial@cial.aero	2018	1.7
Anchoring System Validation	Dr. C B Sudheer	ADTECH Systems Ltd. Kowdiar, Trivandrum 03 Phone No: +91 471 2433805 Email:adtsl@vsnl.com	2019	0.12
Design and allied services for a PV Solar powered 24 PAX FRP Boat - Part Payment	Dr. C B Sudheer	Cochin International Airport Ltd. (CIAL), Kochi Phone No: +91 484 261 0115 / +91 484 305 3000 Email: cial@cial.aero	2019	0.32



Technical Specification, Cost Estimation of Dinghy Boats	Dr. C B Sudheer	State Water Transport Department, Govt. of Kerala, Alappuzha	2019	N/A
Technical Specification, Cost Estimation of Passenger-Rescue Boats	Dr. C B Sudheer	State Water Transport Department, Govt. of Kerala, Alappuzha	2019	N/A
Technical Specification, Cost Estimation of Solar Electric Ro-Ro vessel	Dr. C B Sudheer	State Water Transport Department, Govt. of Kerala, Alappuzha	2019	N/A
Feasibility Study for Ro-Ro vessel between Bolgatty Island and Wellington Island	Dr. C B Sudheer	State Water Transport Department, Govt. of Kerala, Alappuzha	2019	N/A
Preliminary Trim & Stability Assessment of 3 Pontoons	Dr. C B Sudheer	ADTECH Systems Ltd. Kowdiar, Trivandrum 03	2020	0.46
Technical Specification and allied Services for a 6 PAX GRP Speed Boat	Dr. C B Sudheer	Cochin International Airport Ltd. (CIAL), Kochi Phone No: +91 484 261 0115 / +91 484 305 3000 Email: cial@cial.aero	2020	0.11
Design and allied services for a PV Solar powered 24 PAX FRP Boat - Part Payment	Dr. C B Sudheer	Cochin International Airport Ltd. (CIAL), Kochi Phone No: +91 484 261 0115 / +91 484 305 3000 Email: cial@cial.aero	2020	0.27
Concept Design, Technical Specification, Cost Estimation of 2 Boats	Dr. C B Sudheer	Department of Tourism, Lakshadweep Administration, UT of Lakshadweep	2020	0.526



Consultant Service for Constructing Traditional Wooden Uru in North Malabar	Dr. C B Sudheer	Bekal Resorts Development Corporation Phone No:+91 467 2236580, Email:brdc@bekaltourism.com	2020	1.2
Consultancy Service for Detailed Project Report involving Boat Service in Tirur-Ponnani River	Dr. C B Sudheer	District Panchayat, Malappuram Phone No:+91 483 273 4933, Email:dpmlppm@gmail.com	2020	1.2
Technical Advice for purchasing Mini Dredger Vessel	Dr. C B Sudheer	State Water Transport Department, Govt. of Kerala, Thiruvananthapuram	2020	N/A
Tender Review for purchasing 3000 Life Jackets	Dr. C B Sudheer	State Water Transport Department, Govt. of Kerala, Thiruvananthapuram	2020	N/A
Providing Service as Subject Expert for Interviewing Candidates for post of Naval Architect-Port	Dr. C B Sudheer	Kerala Public Service Commission, Thiruvananthapuram	2020	N/A
Estimate Report for Passenger Boat - Trikaripur	Dr. C B Sudheer	Asst Development Commissione's Office / Shri M. Rajagopal MLA Office (MLA Fund),Kasargod	2020	N/A
Study of Underwater Acoustics due to Structure borne Noise of the Shipboard Machineries	Sri. Akram P. A	Seed Money for New Research Initiative - State Plan Grant - Cochin University of Science and Technology	2021	1.10
Calculating motion characteristics of a wind turbine floater for deep sea operation	Sri. Anoop Chithrasenan	Seed Money for New Research Initiative - State Plan Grant - Cochin University of Science and Technology	2021	0.15

Developing the Methodologies and Identifying the Design Constraints for Eco friendly Inland Water Ship Design for National WaterWays 3 (NW-3)	Sri. Aravind K. R	Seed Money for New Research Initiative - State Plan Grant - Cochin University of Science and Technology	2021	1.50
Exploration of renewable energy from ocean	Sri. Mohammed Ashique	Seed Money for New Research Initiative - State Plan Grant - Cochin University of Science and Technology	2021	2.50
Numerical Prediction of Hotspots and Entropy Generation in Energy Generating Components Cooled by Nanofluids/ Liquid Metals by considering Temperature Dependency of Thermo-Physical Properties	Dr. Favas T. K	Seed Money for New Research Initiative - State Plan Grant - Cochin University of Science and Technology	2021	1.00

• **Publications (if any) out of research in last three years out of masters projects**

Title of paper	**Name of the author/s**	**Name of journal**	**Year of publ'n**
Nanosilica decorated multiwalled carbon nanotubes (CS hybrids) in natural rubber latex	Dr. Mathiazhagan A	Journal of Polymer	2019
Effect of manual and automatic Activated Tungsten Inert Gas welding using single component fluxes on stainless steel AISI-304" in the Journal of Ship Production and Design	Shaji Krishna Prasad, Dr. Mathiazhagan A, Pallichakkalayil Sasidharan Krishnadas	Journal of Ship Production and Design	2020

Recycling of FRP Boats	Jayaram S, Dr. Sivaprasad K	International journal of Advanced Engineering and Technology	2018
Novel Systematic Approach to Assessing Human Factors And EngineeringIssues in Maritime Accidents	Ajit Nair A, Dr. Sivaprasad K	ISOR Journal of Engineering	2018
Experience capture Using Micro Soft Share Point in Shipbuilding	Yashwant R Kamath, Dr. Sivaprasad K	The Naval Architect	2018
Strategic Guidance Plan for Recycling of Ships in India	Jayaram S, Dr. Sivaprasad K	International Journal for Advanced Research in Engineering and Technology	2018
Standardisation of Design of a Combination Fishing Vessels in India	Baiju M V, Dr. Sivaprasad K	Journal of Offshore Structure and Technology	2019
Application of Hydraulics in Fishing Vessel Deck Equipment, Case Study of Sagar Haritha	Baiju M V, Dr. Sivaprasad K	Fishery Technology	2020
A review on CFD analysis of sail assisted ocean going ships	Prasanth K, Senthil Prakash, Sivaprasad K	International Journal for New Innovations in Engineering and Technology	2020
Data Centric Redundancy Elimination for Network Data Traffic	Sandhya Narayanan, Philip Samuel and Mariamma Chacko	International Journal of Cloud Computing, Inderscience	2023 (in press)
A Multi-objective Hybrid Optimization for renewable energy integrated Electrical Power Transmission Expansion Planning	Shereena Gaffoor and Mariamma Chacko	International Journal of Electrical and Computer Engineering Systems	2022 (in press)

Implementation of speed control of sensorless brushless DC motor drive using H-infinity controller with optimized weight filters"	K.Vinida, Mariamma Chacko	International Journal of Power Electronics and Drive System	2021
Power consumption and performance of multi- core processors in view of Dark Silicon	Mohanan P.R., Mariamma Chacko,	International Journal of New Innovations in Engineering and Technology	2021
Product Pre-Launch Prediction From Resilient Distributed e-WOM Data	S. Narayanan, P. Samuel and M. Chacko	IEEE Access	2020
Electrical Power System Transmission Planning-A Survey	Shereena Gaffoor and Mariamma Chacko	International Journal of New Innovations in Engineering and Technology	2020
Improving prediction with enhanced Distributed Memory-based Resilient Dataset Filter	Narayanan, S., Samuel, P. & Chacko, M	Journal of Big Data	2020
Integrating Wind Electrical Energy for the Marine Electrical Power System", International Journal of Innovative Technology and Exploring Engineering	Midhu Paulson and Mariamma Chacko	International Journal of Innovative Technology and Exploring Engineering	2019
Sensorless Control of Synchronous Reluctance Motor- A literature Review	Priya Rani Jose and Mariamma Chacko	International Journal of Information Technology and Electrical Engineering	2019
Marine Photovoltaics: A Review Of Research And Developments, Challenges And Future Trends	Midhu Paulson and Mariamma Chacko	International Journal of Scientific & Technology Research	2019
Feature intersection for agent-based customer churn prediction	N., S., Samuel, P. and Chacko, M.	Data Technologies and Applications	2019
Analysis of four quadrant operation of thruster motor in an AUV using an optimized H infinity speed controller	K. Vinida and MariammaChacko	International Journal of Applied Engineering Research	2018



An optimized speed Controller for electrical thrusters in an Autonomous Underwater Vehicle	K. Vinida and Mariamma Chacko	International Journal of Power Electronics and Drives systems	2018
Numerical study on the effect of impactor shape and core characteristics on the ballistic impact response of marine sandwich composite plates	Mahesh C & Dr. Rajesh P Nair	International Journal of Recent Technology and Engineering	2019
Structural behavior of a wing in deformable ground effect of a seaplane	Anjaly Jose, Sheeja Janardhanan, Ajith Kumar Arumugham-Achari &Dr. Rajesh P Nair	International Journal of Recent Technology and Engineering (IJRTE)	2019
Structural Analysis of NFRP Composite Boat Hull Using Finite Element Method	Renjith R & Dr. Rajesh P Nair	Journal of Offshore Structure and Technology	2019
Dynamic Load Factor Estimation of a Typical Launch Vehicle during atmospheric phase	Stenny, Girish Babu P, S. Rajendran & Dr. Rajesh P Nair	International Research Journal of Engineering and Technology	2020
Numerical Investigation on the Drag Characteristics of AUV Hulls	Uppal, H., Dr. Issac, M. T. & Shameem, B. M.,	International Journal of Mechanical and Production Engineering Research and Development	2019
A review of the computational fluid dynamics investigations on fire safety in ships	Renju Raj, T. K. Favas	Proceedings of the International Conference on Advances in Naval and Ocean Engineering	2021
Computational heat transfer in marine transportation systems - A review	Mohammed Faizal H, T. K. Favas	Proceedings of the International Conference on Advances in Naval and Ocean Engineering	2021
Numerical Simulation of Strain-Rate Effect of Al Circular Tube Under Dynamic Loading Conditions	Chhun Banann, Rajesh P Nair, D. D. Ebenezer	Composite Materials for Extreme Loading, 427-438	2022



Numerical analysis of wall shear stress, pressure, drag and lift of the NACA 0020 airfoil used in DARPA SUBOFF	S. Sruthy Raj, H. Rahul Krishna, Manoj T. Issac, and D. D. Ebenezer	Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE '21)	2021
Modification of Epoxy coatings by conducting polymers for improved corrosion protection of Mild Steel	Elias George K , Bhagyesh V Bhaskaran and Dr A. Mathiazhagan	International Journal of Recent Research and Applied Studies	2021
A review on Activated-Tungsten Inert Gas Welding Technique	Vysakh Kadayath Bijukuma, Andy Mathiazhagan and Shaji Krishna Prasad	Proceedings of the NSWEST 2021	2021
Effect of Manual Flux Bounded TIG Welding on Austenitic Stainless Steel AISI 304 and its Comparison with Automated Flux Bounded TIG Welding.	Krishna Prasad S, A Mathiazhagan, Krishnadas P S	INDIAN WELDING JOURNAL	2021
Nano-silica as reinforcing filler in NR latex: Role of processing method on filler morphology inside the rubber and properties of the nanocomposite	G. Neena, S. R. Amrutha1, J. Rani, P. M. Jose,	eXPRESS Polymer Letters	2021



	A. Mathiazhagan		
Experimental validation and comparative study of activated tungsten inert gas welding on marine grade aluminum alloy	Krishna Prasad.S, Dr. A Mathiazhagan, Harikrishnan R	Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE '21)	2021
Effect of manual flux bounded and activated tungsten inert gas welding using single component fluxes on marine grade stainless steel	Krishna Prasad.S, Dr A Mathiazhagan, Nikhil S Nair	Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE '21)	2021
Galvanic corrosion of Marine alloys with CFRP Composites	Jishnu Menon, A. V Ramesh Kumar, A. Mathiazhagan, Reji John	Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE '21)	2021
Hydrodynamic study of the influence of bulbous bow shape for a displacement hull using CFD	C. A. Shefeena Shakkir T, Abhishek Kumar, Manoj T. Issac	Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE '21)	2021



Comparative Study of Monopod and Tripod Suction Caisson Foundation for an Offshore Wind Turbine	Jasna, P. H., Beena Mary John, and Rajesh P. Nair	*International Conference on Structural Engineering and Construction Management* (pp. 355-363). Springer, Cham.	2021
Numerical study on the effect of embedment length of monopiles supporting offshore wind turbines in indian marine soil	Binoy Sebastian Beena Mary John Manoj T Issac	Proceedings of the International Conference on Advances in Naval and Ocean Engineering (iCANOE '21)	2021

• **Industry Linkage**

B.Tech students undergo summer training for two months each during their second and third years in various leading companies in the industry as a part of their academic curriculum such as Indian Register of Shipping, Cochin Shipyard Limited, Conceptia, SEDS, X-ship, Mazagon Dock Limited, GRSE etc.

M.Tech students carry out their project work in leading companies/premiere institutions in the industry such Cochin Shipyard Limited, NPOL, VSSC etc.

Additionally leading companies in the industry regularly hire our graduates through campus placement programmes coordinated by the department placement cell.

Additionally seminars, webinars, panel discussions etc are conducted with representation from industry personnel so that students are updated on the latest trends and developments.

MoU signed with industries as listed in next section ensure a means for knowledge transfer as well among other things,



• **MoUs with Industries (minimum 3(10))**

Organisation with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
CUSAT with Cochin Shipyard Limited(CSL)	2016	5 years and may be extended or renewed for a further period by mutual agreement of both parties.	**Activities specific to CUSAT in brief :** 1) Industrial Training/Visits 2) R&D activities 3) Knowledge sharing where copyright or confidentiality shall n impinged. 4) Faculty Exchange based on availability and mutual discussion 5) Support & Sponsor MTech & Phd projects 6) Consultancy Services 7) Organising Seminars & Workshop 8) Material Resource (lab & library facility) sharing **Activities specific to DoST in brief :** 1) Industrial Training for students 2) Knowledge sharing from industry experts to students by givin lectures on elective subjects. 3)Sponsorship for International Conference on Ships & Offshore Technology
CUSAT with Nippon Kaiji Kyokai(ClassNK)	2017	Ongoing until termination based on request from either party with a notice period of one year	**Activities specific to DoST in brief :** 1) Class NK award for the best BTech Final Year Project
CUSAT with Memorial University of Newfoundland	2021	5 years and may be extended or renewed for a further period by mutual agreement of both parties.	**Collaboration on academic and research activities under this may include, but is not limited to the following:** a) exchange of faculty members b) undergraduate and graduate student mobility c) exchange of publications, research materials, newsletters, etc. d) joint projects related to research, teaching and faculty develop e) development of joint initiatives with partner institutions, inclu joint or collaborative degree programs f) opportunities for full-degree fee paying undergraduate/graduat study.



18. LoA and subsequent EoA till the current Academic Year

All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2021-22

Extension of Approval (EoA)

F.No. South-West/1-9319668520/2021/EOA

Date: 25-Jun-2021

To,

The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of Approval for the Academic Year 2021-22

Ref: Application of the Institution for Extension of Approval for the Academic Year 2021-22

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, 2021 Notified on 4th February, 2020 and amended on 24th February 2021 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to:

Permanent Id	1-474900741	**Application Id**	1-9319668520
Name of the Institution /University	DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	**Name of the Society/Trust**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
Institution /University Address	CUSAT COCHIN UNIVERSITY P.O, COCHIN, ERNAKULAM, Kerala, 682022	**Society/Trust Address**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COCHIN UNIVERSITY P O KOCHI-22,COCHIN,ERNAKULAM,Kerala,682022
Institution /University Type	State Government University	**Region**	South-West

To conduct following Programs / Courses with the Intake indicated below for the Academic Year 2021-22

Program	Level	Course	Affiliating Body (University /Body)	Intake Approved for 2020-21	Intake Approved for 2021-22	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
ENGINEERING AND TECHNOLOGY	POST GRADUATE	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	NAVAL ARCHITECTURE & SHIP BUILDING	Cochin University of Science and Technology,Cochin	40	40	NA	NA

It is mandatory to comply with all the essential requirements as given in APH 2021-22 (Appendix 6)

Important Instructions

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years.

2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time now amalgamated as total intake shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2021-22 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE within the Academic Year 2021-22

3. Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ ST, Establishment of Internal Complaint Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as per the provisions made in Approval Process Handbook and AICTE Regulation notified from time to time.

4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Prof.Rajive Kumar
Member Secretary, AICTE

Copy ** to:

1. **The Director of Technical Education**, Kerala**

2. **The Registrar**,**
   Cochin Unviersity Of Science And Technology, Cochin

3. **The Principal / Director,**
   DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   Cusat
   Cochin University P.O,
   Cochin,Ernakulam,
   Kerala,682022

4. **The Secretary / Chairman,**
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,
   COCHIN UNIVERSITY P O
   KOCHI-22
   COCHIN,ERNAKULAM
   Kerala,682022

5. **The Regional Officer,**
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

This is a computer generated Statement. No signature Required

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2020-21

Extension of Approval (EoA)

F.No. South-West/1-7004905788/2020/EOA

Date: 30-Apr-2020

To,

The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of Approval for the Academic Year 2020-21

Ref: Application of the Institution for Extension of Approval for the Academic Year 2020-21

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2020 notified by the Council vide notification number F.No. AB/AICTE/REG/2020 dated 4th February 2020 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-474900741	**Application Id**	1-7004905788
Name of the Institute	DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	**Name of the Society/Trust**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
Institute Address	CUSAT COCHIN UNIVERSITY P.O, COCHIN, ERNAKULAM, Kerala, 682022	**Society/Trust Address**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COCHIN UNIVERSITY P O KOCHI-22,COCHIN,ERNAKULAM,,682022
Institute Type	State Government University	**Region**	South-West

To conduct following Courses with the Intake indicated below for the Academic Year 2020-21

Program	Level	Course	Affiliating Body (University /Body)	Intake Approved for 2019-20	Intake Approved for 2020-21	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status
ENGINEERING AND TECHNOLOGY	POST GRADUATE	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	No
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	NAVAL ARCHITECTURE & SHIP BUILDING	Cochin University of Science and Technology,Cochin	40	40	NA	No

Note: This is a Computer generated Report. No signature is required.

Printed By : aic004196

Letter Printed On:28 May 2020

It is mandatory to comply with all the essential requirements as given in APH 2020-21 (Appendix 6)

Important Instructions

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2020-21 is implemented without affecting the reservation percentages of SC/ ST/ OBC/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years beginning with the Academic Year 2020-21

2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time now amalgamated as total intake shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2020-21 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE.

3. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

4. Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 373/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Prof.Rajive Kumar
Member Secretary, AICTE

Copy to:

1. **The Director Of Technical Education**, Kerala**

2. **The Registrar**,**
   Cochin Unviersity Of Science And Technology, Cochin

3. **The Principal / Director,**
   DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   Cusat
   Cochin University P.O,
   Cochin,Ernakulam,
   Kerala,682022

4. **The Secretary / Chairman,**
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,
   COCHIN UNIVERSITY P O
   KOCHI-22
   COCHIN,ERNAKULAM
   ,682022

5. **The Regional Officer,**
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

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All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2019-20

Extension of Approval (EoA)

F.No. South-West/1-4261622213/2019/EOA

Date: 10-Apr-2019

To,

The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of Approval for the Academic Year 2019-20

Ref: Application of the Institution for Extension of approval for the Academic Year 2019-20

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2018 notified by the Council vide notification number F.No.AB/AICTE/REG/2018 dated 31/12/2018 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-474900741	**Application Id**	1-4261622213
Name of the Institute	DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	**Name of the Society/Trust**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
Institute Address	CUSAT COCHIN UNIVERSITY P.O, COCHIN, ERNAKULAM, Kerala, 682022	**Society/Trust Address**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COCHIN UNIVERSITY P O KOCHI-22,COCHIN,ERNAKULAM,Kerala,682022
Institute Type	University Managed-Govt	**Region**	South-West

Opted for Change from Women to Co-Ed and vice versa	No	**Change from Women to Co-Ed and vice versa Approved or Not**	NA
Opted for Change of Name	No	**Change of Name Approved or Not**	NA
Opted for Change of Site/Location	No	**Change of Site/Location Approved or Not**	NA
Opted for Conversion from Degree to Diploma or vice versa	No	**Conversion for Degree to Diploma or vice versa Approved or Not**	NA
Opted for Organization Name Change	No	**Change of Organization Name Approved or Not**	NA
Opted for Merger of Institution	No	**Merger of Institution Approved or Not**	NA
Opted for Introduction of New Program/Level	No	**Introduction of Program/Level Approved or Not**	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2019-20

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2019-20	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status
Engineering And Technology	1st	POST GRADUATE	Computer Aided Structural Analysis And Design	FT	Cochin Unviersity of Science and Technology, Cochin	18	NA	NA

Engineering And Technology	1st	UNDER GRADUATE	Naval Architecture & Ship Building	FT	Cochin University of Science and Technology,Cochin	40	NA	NA

+FT –Full Time,PT-Part Time

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

It is mandatory to comply all the essential requirements as given in APH 2019-20(appendix 6)

NOTE: If the State Government / UT / DTE / DME has a reservation policy for admission in Technical Education Institutes and the same is applicable to Private & Self-financing Technical Institutions, then the State Government / UT/ DTE / DME shall ensure that 10 % of Reservation for EWS would be operational from the Academic year 2019-20 without affecting the percentage reservations of SC/ST/OBC/General . However, this would not be applicable in the case of Minority Institutions referred to the clause (1) of Article 30 of Constitution of India.

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:

1. **The Director Of Technical Education**, Kerala**

2. **The Registrar**,**
   Cochin Unviersity Of Science And Technology, Cochin

3. **The Principal / Director,**
   Department Of Ship Technology,Cochin University Of Science And Technology
   Cusat
   Cochin University P.O,
   Cochin,Ernakulam,
   Kerala,682022

4. **The Secretary / Chairman,**
   Cochin University Of Science And Technology
   Cochin University Of Science And Technology,
   Cochin University P O
   Kochi-22.
   Cochin,Ernakulam,
   Kerala,682022

5. **The Regional Officer,**
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2018-19

Extension of Approval (EoA)

F.No. South-West/1-3514590997/2018/EOA

Date: 04-Apr-2018

To,

The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of Approval for the Academic Year 2018-19

Ref: Application of the Institution for Extension of approval for the Academic Year 2018-19

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and amended on December 5, 2017 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-474900741	**Application Id**	1-3514590997
Name of the Institute	DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	**Name of the Society/Trust**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
Institute Address	CUSAT COCHIN UNIVERSITY P.O, COCHIN, ERNAKULAM, Kerala, 682022	**Society/Trust Address**	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COCHIN UNIVERSITY P O KOCHI-22,COCHIN,ERNAKULAM,Kerala,682022
Institute Type	University Managed-Govt	**Region**	South-West

Opted for Change from Women to Co-Ed and vice versa	No	**Change from Women to Co-Ed and vice versa Approved or Not**	NA
Opted for Change of Name	No	**Change of Name Approved or Not**	NA
Opted for Change of Site	No	**Change of Site Approved or Not**	NA
Opted for Conversion from Degree to Diploma or vice versa	No	**Conversion for Degree to Diploma or vice versa Approved or Not**	NA
Opted for Organization Name Change	No	**Change of Organization Name Approved or Not**	NA

To conduct following Courses with the Intake indicated below for the Academic Year 2018-19

Program	Shift	Level	Course	FT/PT+	Affiliating Body (Univ/Body)	Intake Approved for 2018-19	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status	Foreign Collaboration /Twining Program Approval Status*
ENGINEERING AND TECHNOLOGY	1st	POST GRADUATE	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN	FT	Cochin Unviersity of Science and Technology, Cochin	18	NA	NA	NA
ENGINEERING	1st	UNDER	NAVAL	FT	Cochin University of	40	NA	NA	NA

AND TECHNOLOGY		GRADUATE	ARCHITECTURE & SHIP BUILDING		Science and Technology,Cochin				

+FT –Full Time,PT-Part Time

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:

1. The Regional Officer,
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka
2. The Director Of Technical Education**,
   Kerala
3. The Registrar**,
   Cochin Unviersity of Science and Technology, Cochin
4. The Principal / Director,
   DEPARTMENT OF SHIP TECHNOLOGY,COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   CUSAT
   COCHIN UNIVERSITY P.O,
   COCHIN,ERNAKULAM,
   Kerala,682022
5. The Secretary / Chairman,
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,
   COCHIN UNIVERSITY P O
   KOCHI-22,
   COCHIN,ERNAKULAM,
   Kerala,682022
6. Guard File(AICTE)

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. South-West/1-3326924495/2017/EOA

Date: 10-Apr-2017

To,

The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of approval for the academic year 2017-18

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-423181221	Application Id	1-3326924495
Name of the Institute	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	Institute Address	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,COCHIN UNIVERSITY P.O., KOCHI-682022, COCHIN, ERNAKULAM, Kerala, 682022
Name of the Society/Trust	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY	Society/Trust Address	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, COCHIN,COCHIN,ERNAKULAM,Kerala,682022
Institute Type	University Managed-Govt	Region	South-West

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable
Opted for Conversion from degree to diploma	No	Opted for Conversion from diploma to degree	No	Conversion (degree to diploma or vice-a-versa) Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2017-18

Application Id: 1-3326924495			Course	Full/Part Time	Affiliating Body	Intake Approved for 2016-17	Intake Approved for 2017-18	NRI Approval status	PIO / FN / Gulf quota/ OCI/ Approval status	Foreign Collaborarion/Twining Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ATMOSPHERIC SCIENCE	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	Yes	Yes	NA

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AND INFORMATION SCIENCE	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CONSTRUCTION ENGINEERN AND MANAGEMENT	PART TIME	Cochin University of Science and Technology, Kochi	13	13	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENGINEERING STATISTICS	FULL TIME	Cochin University of Science and Technology, Kochi	15	15	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	GEOTECHNICAL ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INDUSTRIAL CATAYLSIS	FULL TIME	Cochin University of Science and Technology, Kochi	10	10	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INDUSTRIAL SAFETY	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS	PART TIME	Cochin University of Science and Technology, Kochi	15	15	NA	NA	NA

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PROCESS CONTROL	PART TIME	Cochin University of Science and Technology, Kochi	13	13	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PRODUCTION ENGINEERING	PART TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE SYSTEMS	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	WIRELESS TECHNOLOGY	FULL TIME	Cochin University of Science and Technology, Kochi	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	90	90	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCEINCE & ENGINEERING	PART TIME	Cochin University of Science and Technology, Kochi	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	90	90	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	60	60	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	90	90	Yes	Yes	NA

ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	PART TIME	Cochin University of Science and Technology, Kochi	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Cochin University of Science and Technology, Kochi	90	90	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INSTRUMENTATION TECHNOLOGY	FULL TIME	Cochin University of Science and Technology, Kochi	40	40	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MARINE ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	90	90	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	SAFETY AND FIRE ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	60	60	Yes	Yes	NA

The above mentioned approval is subject to the condition that

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Prof. A.P Mittal

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

2. **The Director Of Technical Education**,**
   Kerala

3. **The Registrar**,**
   Cochin University of Science and Technology, Kochi

4. **The Principal / Director,**
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,COCHIN UNIVERSITY P.O., KOCHI-682022,
   COCHIN,ERNAKULAM,
   Kerala,682022

5. **The Secretary / Chairman,**
   COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, COCHIN,
   COCHIN,ERNAKULAM,
   Kerala,682022

6. **Guard File(AICTE)**

Note: ** - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.



All India Council for Technical Education
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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. South-West/1-2812129973/2016/EOA/Corrigendum-1 Date: 11-May-2016

Corrigendum

To,
The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of approval for the academic year 2016-17.

Ref : Application of the Institution for Extension of Approval for the Year 2016-17

EOA Issued on	F.No. South-West/1-2812129973/2016/EOA	30-Apr-2016
EOA Printed on	F.No. South-West/1-2812129973/2016/EOA	11-May-2016
Corrigendum 1	F.No. South-West/1-2812129973/2016/EOA/Corrigendum-1	11-May-2016

Sir/Madam,

In partial modification of the letter F.No. South-West/1-2812129973/2016/EOA and in terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2812129973
Name of the Institute	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	Permanent Id	1-423181221
Name of the Society/Trust	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY	Institute Address	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,COCHIN UNIVERSITY P.O., KOCHI-682022, COCHIN, ERNAKULAM, Kerala, 682022
Institute Type	University Managed-Govt	Society/Trust Address	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, COCHIN,COCHIN,ERNAKULAM,Kerala,682022

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable



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To conduct following courses with the intake indicated below for the academic year 2016-17*

Application Id: 1-2812129973			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaborarion/Twining Program Approval status*
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ATMOSPHERIC SCIENCE	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AND INFORMATION SCIENCE	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Cochin University of Science and Technology, Kochi	0	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CONSTRUCTION ENGINEERN AND MANAGEMENT	PART TIME	Cochin Unviersity of Science and Technology, Cochin	13	13	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENGINEERING STATISTICS	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	15	15	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	GEOTECHNICAL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLO	1st Shift	POST GRADUA	INDUSTRIAL CATAYLSIS	FULL TIME	Cochin Unviersity of Science and Technology,	10	10	Yes	Yes	NA

GY		TE			Cochin					
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INDUSTRIAL SAFETY	FULL TIME	Cochin University of Science and Technology, Kochi	0	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS	PART TIME	Cochin Unviersity of Science and Technology, Cochin	15	15	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PROCESS CONTROL	PART TIME	Cochin Unviersity of Science and Technology, Cochin	13	13	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PRODUCTION ENGINEERING	PART TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE SYSTEMS	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	WIRELESS TECHNOLOGY	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
	1st	UND	COMPUTE	PART	Cochin	60	60	NA	NA	NA

ENGINEERING AND TECHNOLOGY	Shift	ER GRADUATE	R SCEINCE & ENGINEERING	TIME	Unviersity of Science and Technology, Cochin					
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	PART TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INSTRUMENTATION TECHNOLOGY	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	40	40	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MARINE ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	SAFETY AND FIRE ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	Yes	NA	NA

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*Corrigendum for- New Course/Increase in Intake

The above mentioned approval is subject to the condition that COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Prof. Alok Prakash Mittal
Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education

   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

2. **The Director Of Technical Education,**
   Kerala

3. **The Principal / Director,**
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,COCHIN UNIVERSITY P.O., KOCHI-682022,
   COCHIN,ERNAKULAM,
   Kerala,682022

4. **The Secretary / Chairman,**
   COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, COCHIN,
   COCHIN,ERNAKULAM,
   Kerala,682022

5. **Guard File(AICTE)**



All India Council for Technical Education
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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. South-West/1-2455979851/2015/EOA

Date: 30-Apr-2015

To,
The Principal Secretary,
Deptt. Of education, Govt. of Kerala,
Govt. Sectt. Annexe,
Thiruvananthapuram-695001

Sub: Extension of approval for the academic year 2015-16

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-West	Application Id	1-2455979851
		Permanent Id	1-423181221
Name of the Institute	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	Institute Address	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,COCHIN UNIVERSITY P.O., KOCHI-682022, COCHIN, ERNAKULAM, Kerala, 682022
Name of the Society/Trust	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY	Society/Trust Address	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, COCHIN,COCHIN,ERNAKULAM,Kerala,682022
Institute Type	University Managed-Govt		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:3 July 2015

Printed By : robengaluru

All India Council for Technical Education
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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2455979851			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ATMOSPHERIC SCIENCE	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AIDED STRUCTURAL ANALYSIS AND DESIGN	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER AND INFORMATION SCIENCE	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CONSTRUCTION ENGINEERN AND MANAGEMENT	PART TIME	Cochin Unviersity of Science and Technology, Cochin	13	13	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENGINEERING STATISTICS	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	15	15	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	GEOTECHNICAL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INDUSTRIAL CATAYLSIS	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	10	10	Yes	Yes	NA

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2455979851			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS	PART TIME	Cochin Unviersity of Science and Technology, Cochin	15	15	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PROCESS CONTROL	PART TIME	Cochin Unviersity of Science and Technology, Cochin	13	13	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PRODUCTION ENGINEERING	PART TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE SYSTEMS	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	WIRELESS TECHNOLOGY	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	18	18	NA	NA	NA

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:3 July 2015

Printed By : robengaluru

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2455979851			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCEINCE & ENGINEERING	PART TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	PART TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Id: 1-2455979851			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NRI Approval status	PIO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INSTRUMENTATION TECHNOLOGY	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	40	40	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MARINE ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	90	90	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	SAFETY AND FIRE ENGINEERING	FULL TIME	Cochin Unviersity of Science and Technology, Cochin	60	60	Yes	NA	NA

Note: Validity of the course details may be verified at www.aicte-india.org>departments>approvals

The above mentioned approval is subject to the condition that COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

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Dr. Avinash S Pant
Actg Chairman, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

2. **The Director Of Technical Education,**
   Kerala

3. **The Registrar,**
   Cochin Unviersity of Science and Technology, Cochin

4. **The Principal / Director,**
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY,COCHIN UNIVERSITY P.O., KOCHI-682022,
   COCHIN,ERNAKULAM,
   Kerala,682022

5. **The Secretary / Chairman,**
   COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY
   COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, COCHIN,
   COCHIN,ERNAKULAM,
   Kerala,682022

6. **Guard File(AICTE)**

19. Accounted audited statement for the last three years

YES (http://finance.cusat.ac.in/)

20. Best Practices adopted, if any

- Outcome based curriculum has been implemented in 2020.
- Internship in modern shipyards and other Naval Architecture and Ship Building centres.
- Experimental labs in DRDO, ISRO, MoES and CSIR, CSL Labs.
- Practical ship building- preliminary experience in Ship Model Making Lab- Cochin Shipyard sponsored.
- Detailed feedbacks from Alumni, Employers, Teachers and Students facilitates the evaluation of programme specific and course-specific outcomes

Quality (Kaisan) in Education and curriculum Redesign

Kaizen (Continuous Improvement) is a strategy where employees at all levels work together proactively to achieve regular, incremental **improvements** to the the educational system. In a sense, it combines the collective talents within a department to create a powerful engine for **improvement**.

DOST is a student-centric department, enabling immediate employability of students while ensuring that they acquire life-long learning and adaptation skills makes it challenging to decide on content and pedagogy. Despite these constraints and the challenges, DOST has managed to ensure that curricular changes are carried out in a timely and rigorous manner.

DOST evaluated the curriculum of each of its programs. The evaluation included a benchmarking exercise for each program against three IITs and two Universities in India and abroad in that discipline. The Department of Ship Technology (Cochin University of Science & Technology) established in 1974, is a pioneering, globally recognized department in producing Naval Architect graduates who have already proved their merit and mettle in the field of Naval Architecture, Offshore and allied industries. M.Tech program in Computer Aided Structural Analysis and design was successfully launched by the department in the academic year 1995-96. The duration of the course is 4 semesters, where the first two are fully devoted for the course work and the last two for the project work. The student carryout in-house project works and also at various organizations such as SERC, ISRO, NPOL etc. Many of the M. Tech Alumni have occupied various positions in central and state government; also some have chosen teaching professions. They have maintained the reputation of the department in limelight by proving their excellence in their respective fields.

The impact of the curriculum redesign processes has been validated by student feedback as well as external feedback through different channels. It is found that: Employer feedback and responsiveness has been improving. Sustained and high-quality employment opportunities and

offers for our students that endure market fluctuation. Feedback from external reviewers has been strongly positive.

- Society of Naval Architecture Students (SNAS) - for professional and cultural development of students
- Experimental laboratory tests are done in one of the premier labs of DRDO, NSTL (Naval Scientific and Technical Lab, Visakhapatnam).
- Well established in-house labs and workshops which includes Industry Sponsored Ship Model Making lab (sponsored by India's biggest shipyard, Cochin Shipyard Limited, Cochin).
- Final year Ship Design projects are individual project and out of which, three students do their projects in Cochin Shipyard Limited.
- The M.Tech CASAD students are required to complete a one-year project dissertation, which develops the capability of independently carrying out research /investigation related to ocean engineering. The use of appropriate techniques and tools, design and conduct of experiments, analysis and interpretation of data to provide valid conclusions is also developed as part of this project work.



HEAD OF THE DEPARTMENT
SHIP TECHNOLOGY