

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

Program Name : Marine Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 11516	Date of Submission : 19-01-2026

PART A- Profile of the Institute

A1.Name of the Institute: Vels Institute of Science, Technology and Advanced Studies(VISTAS),	
Year of Establishment : 2008	Location of the Institute: Pallavaram
A2. Institute Address: Velan Nagar, P.V.Vaithiyalingam Road, Pallavaram, Chennai	
City:Kancheepuram	State:Tamil Nadu
Pin Code:600117	Website:www.velsuniv.ac.in
Email:vistas@velsuniv.org	Phone No(with STD Code):044-22662501
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Kancheepuram
State : Tamil Nadu	Pin Code: 600117
A4. Type of the Institution: Deemed University	
A5. Ownership Status: Self financing	

A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: **19**
- No. of PG programs: **12**

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Computer Application	PG	Master in Computer Applications	2008	--	Computer Application
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Computer Science and Engineering (Data Science)
3	Engineering & Technology	UG	Automation & Robotics	2022	2024	Mechanical Engineering
4	Engineering & Technology	UG	Automobile Engineering	2012	2025	Automobile Engineering
5	Engineering & Technology	PG	Automobile Engineering	2013	2025	Automobile Engineering
6	Engineering & Technology	UG	Biomedical Engineering	2015	--	Biomedical Engineering
7	Engineering & Technology	UG	Biotechnology	2015	--	Biotechnology
8	Engineering & Technology	UG	Civil Engineering	2009	2025	Civil Engineering
9	Engineering & Technology	PG	Computer Integrated Manufacturing	2012	--	Mechanical Engineering
10	Engineering & Technology	UG	Computer Science and Engineering	2008	--	Computer Science and Engineering

11	Engineering & Technology	PG	Computer Science and Engineering	2009	--	Computer Science and Engineering
12	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
13	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2023	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
14	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2025	--	Computer Science and Engineering (Data Science)
15	Engineering & Technology	PG	Construction Engineering & Management	2012	--	Civil Engineering
16	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
17	Engineering & Technology	UG	Electronics & Communication Engineering	2008	--	Electronics and Communication Engineering
18	Engineering & Technology	UG	Electronics & Computer Engineering	2022	--	Electronics and Communication Engineering
19	Engineering & Technology	UG	Information Technology	2014	--	Computer Science and Engineering (Data Science)
20	Engineering & Technology	UG	Marine Engineering	2005	--	Marine Engineering
21	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
22	Engineering & Technology	UG	Naval Architecture and Offshore Engineering	2015	--	Naval Architecture and Offshore Engineering
23	Engineering & Technology	UG	Petroleum Engineering	2015	2023	Petroleum Engineering
24	Engineering & Technology	UG	Robotics and Artificial Intelligence	2025	--	Mechanical Engineering
25	Engineering & Technology	PG	Structural Engineering	2025	--	Civil Engineering
26	Management	PG	Enterprenuership	2022	--	Management
27	Management	PG	Master of Business Administration	2008	--	Management
28	Management	PG	Master of Business Administration (Shipping and Logistics Management)	2008	--	Management
29	Management	PG	MBA Aviation Management	2024	--	Management
30	Management	PG	MBA Business Analytics	2016	--	Management
31	Management	PG	MBA Logistics Supply Chain Management	2009	--	Management

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Marine Engineering	No	Marine Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Marine Engineering	UG	2005 / --	120	No	NA	120	2005	F.No. Southern/1-44638156062/2025/EOA	Granted accreditation for 3 years for the period (specify period)	2020	2026	2	4

List of the Allied Departments/Cluster and Programs:

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Dr. Capt. N. Kumar
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	80	80	80	80	80	80	80
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	80	77	75	63	40	45	63
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	3	4	6	5	10	9
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0

Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	80	80	79	69	45	55	72
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CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	80	80	0	100.00
2024-25 (CAYm1)	80	77	0	96.25
2023-24 (CAYm2)	80	75	0	93.75

Average [(ER1 + ER2 + ER3) / 3] = 96.67≅ 20.00

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	85.00	90.00	89.00
B=No. of students who graduated from the program in the stipulated course duration	45.00	54.00	72.00
Success Rate (SR)= (B/A) * 100	52.94	60.00	80.90

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 64.61

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.95	7.90	7.87
Y=Total no. of successful students	77.00	75.00	63.00
Z=Total no. of students appeared in the examination	77.00	75.00	63.00
API [X*(Y/Z)]	7.95	7.90	7.87

Average API[(AP1+AP2+AP3)/3] : 7.91

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	6.40	6.10	6.41
Y=Total no. of successful students	79.00	69.00	45.00
Z=Total no. of students appeared in the examination	79.00	69.00	45.00
API [X * (Y/Z)]	6.40	6.10	6.41

Average API [(AP1 + AP2 + AP3)/3] : 6.30

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	6.40	6.51	6.30
Y=Total no. of successful students	68.00	45.00	55.00
Z=Total no. of students appeared in the examination	69.00	45.00	55.00
API [X*(Y/Z)]:	6.31	6.51	6.30

Average API [(AP1 + AP2 + AP3)/3] : 6.37

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	85.00	90.00	89.00
X=No. of students placed	72.00	68.00	74.00
Y=No. of students admitted to higher studies	0.00	5.00	0.00
Z= No. of students taking up entrepreneurship	1.00	2.00	1.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	85.88	83.33	84.27

Average Placement Index = (P_1 + P_2 + P_3)/3: 84.49 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments**(Data to be filled in for the Department and Allied Departments)****C1. Faculty details of Department and Allied Departments**

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Capt. N. Kumar	XXXXXXXX26Q	Ph.D	VISTAS	Shipping	04/09/2007	18.4	Associate Professor	Professor	31/05/2011	Regular	Yes		Yes
2	C. Manasseh Karnan	XXXXXXXX63H	B.E.	Kamarajar University	Marine Engineering	01/03/2018	7.10	Professor	Professor		Regular	Yes		No
3	M Rajesh	XXXXXXXX36E	M.E.	Anna University	Marine Engineering	02/05/2011	14.8	Professor	Professor		Regular	Yes		No
4	Shanmugam Magesh	XXXXXXXX42F	B.E.	Madras University	Marine Engineering	23/07/2025	0.5	Associate Professor	Associate Professor		Regular	Yes		No

5	V. Chandrasekaran	XXXXXXX75A	Ph.D	Washington Digital University	Marine Engineering	01/08/2024	1.5	Associate Professor	Associate Professor		Regular	Yes		No
6	C R Jude Ilango	XXXXXXX77J	B.E.	Kamarajar University	Marine Engineering	26/10/2022	3.2	Associate Professor	Associate Professor		Regular	Yes		No
7	Siva kumar	XXXXXXX70L	B.E.	Directorate of Marine Engineering and Training	Marine Engineering	01/08/2023	2.5	Associate Professor	Associate Professor		Regular	Yes		No
8	Hari Sivagurunathan	XXXXXXX60L	B.E.	Bangalore University	Marine Engineering	11/12/2020	5.1	Associate Professor	Associate Professor		Regular	Yes		No
9	R.Prabu	XXXXXXX92G	Ph.D	Anna University	Manufacturing Engineering	03/11/2020	5.2	Assistant Professor	Associate Professor	03/07/2023	Regular	Yes		No
10	Rajapariyan R	XXXXXXX74E	M.Tech	PRIST UNIVERSITY	Marine Computer Applications	03/01/2011	15	Assistant Professor	Assistant Professor		Regular	Yes		No
11	L. Ranjith Kumar	XXXXXXX27R	M.E.	Anna University	computer integrated Manufacturing	15/06/2017	8.7	Assistant Professor	Assistant Professor		Regular	Yes		No
12	S.Shanmugam	XXXXXXX35B	M.E.	Annamalai University	Power System	24/06/2019	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
13	S.Srikarthikeyan	XXXXXXX14P	M.E.	Anna University	Manufacturing Engineering	01/11/2019	6.2	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Ms. J Jeyasudha	XXXXXXX10Q	M.E.	Anna University	Power Electronics and Drives	14/09/2020	5.4	Assistant Professor	Assistant Professor		Regular	Yes		No
15	K.Velmurugan	XXXXXXX21G	M.E.	Sathyabama University	Electronics And Control	12/07/2021	4.6	Assistant Professor	Assistant Professor		Regular	Yes		No
16	J.Chenguttuvan	XXXXXXX15N	M.E.	Annamalai University	Power System	11/08/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
17	S.Amirtharaj	XXXXXXX98K	M.E.	Anna University	Power System	01/06/2024	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
18	B.Purushothaman	XXXXXXX12P	M.E.	Anna University	Manufacturing Engineering	10/06/2024	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
19	D.V.Rajesh Kumar	XXXXXXX14B	M.E.	VISTAS	Automobile Engineering	23/07/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Abdul Haseeb Khan	XXXXXXX13A	M.Tech	Indian Institute of Technology,Kharagpur	Naval Architecture	15/12/2025	0.1	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Ragunath P	XXXXXXX98Q	M.E.	Anna University	CAD /CAM	15/12/2021	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
22	M Vennimalai	XXXXXXX02A	M.E.	Anna University	Thermal Engineering	17/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Karunya.F	XXXXXXX02E	MA	Ambedkar Law University	Maritime Law	02/01/2023	3	Assistant Professor	Assistant Professor		Regular	Yes		No

24	Ramanujam K	XXXXXXXX57Q	M.E.	Anna University	Power Electronics and Drives	01/10/2019	6.3	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Arulmanikandan.A	XXXXXXXX72A	M.E.	Anna University	Manufacturing Engineering	03/04/2025	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
26	A. Britto	XXXXXXXX86Q	M.Sc	Bharathidasan University	Engineering Mathematics	03/07/2006	19.6	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Caroline B	XXXXXXXX19G	MA	Annamalai University	English	01/03/2022	3.10	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Capt J Manivannan	XXXXXXXX10D	B.E.	University of Mumbai	Shipping	17/12/2019	5	Associate Professor	Associate Professor		Regular	No	24/12/2024	No
29	K.Bhavani	XXXXXXXX88K	Ph.D	Alagappa University	Material Science	13/06/2019	5.11	Assistant Professor	Associate Professor	03/07/2023	Regular	No	30/05/2025	No
30	Subashini.T	XXXXXXXX16H	M.E.	Anna University	Power Electronics and Drives	01/07/2016	7.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
31	Sakthi Kannan	XXXXXXXX97K	B.E.	VISTAS	Marine Engineering	18/11/2024	0.5	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
32	Mathesh Babu	XXXXXXXX92L	M.Tech	Indian Maritime University	Naval Architecture	01/07/2021	3.6	Assistant Professor	Assistant Professor		Regular	No	31/12/2024	No
33	A S Balajee	XXXXXXXX67H	MBA	Tamil Nadu Open University	Shipping And Logistics	01/06/2023	2.5	Assistant Professor	Assistant Professor		Regular	No	28/11/2025	No
34	Capt. G Janakiraman	XXXXXXXX85D	B.E.	Madras University	Shipping	13/06/2016	7.8	Associate Professor	Associate Professor		Regular	No	05/03/2024	No
35	Sridhar.A	XXXXXXXX52H	B.E.	R.L Institute Of Nautical Science	Marine Engineering	01/04/2022	1.7	Associate Professor	Associate Professor		Regular	No	31/10/2023	No
36	P .Murali	XXXXXXXX41J	Ph.D	Anna University	Power System	13/11/2019	4.6	Assistant Professor	Professor	03/07/2023	Regular	No	03/06/2024	No
37	Arvind Kishor T S	XXXXXXXX21M	Ph.D	VISTAS	Naval Architecture	03/07/2017	8.6	Assistant Professor	Associate Professor	02/07/2025	Regular	Yes		No
38	Gomathi A	XXXXXXXX83M	Ph.D	Periyar University	Nano Particles	21/04/2025	0.8	Associate Professor	Associate Professor		Regular	Yes		No
39	N Jhansi	XXXXXXXX47B	Ph.D	Bharath Institute of Higher Education and Research	Soft skills, Gender sensitivity, Ethics and Human values	01/09/2021	4.2	Assistant Professor	Associate Professor	03/07/2023	Regular	No	29/11/2025	No
40	K Ayyappan	XXXXXXXX77R	Ph.D	AMET	Ocean Engineering	26/09/2022	2.8	Assistant Professor	Associate Professor	03/07/2023	Regular	No	30/05/2025	No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	120	120	120
UG1.C	120	120	120
UG1.D	120	120	120
UG1: Marine Engineering	360	360	360
DS=Total no. of students in all UG and PG programs in the Department	360	360	360
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 360	S2= 360	S3= 360
DF=Total no. of faculty members in the Department	20	20	20
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 20	F2= 20	F3= 20
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 18.00	SFR2= 18.00	SFR3= 18.00
Average SFR for 3 years	SFR= 18.00		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 * [(10X + 4Y)/RF]$ where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	5	15	18.00	15.28

2024-25(CAYm1)	5	15	18.00	15.28
2023-24(CAYm2)	5	15	18.00	15.28

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	2.00	1.00	4.00	4.00	12.00	15.00
2024-25	2.00	1.00	4.00	4.00	12.00	15.00
2023-24	2.00	1.00	4.00	4.00	12.00	15.00
Average	RF1=2.00	AF1=1.00	RF2=4.00	AF2=4.00	RF2=12.00	AF2=15.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Capt I V S Ramakrishna	Master Mariner, [FG]	Directorate General of Shipping	Seamanship and Commercial	36.00
2	Capt I V S Ramakrishna	Master Mariner, [FG]	Directorate General of Shipping	Seamanship Practical	36.00
3	Dr K Piruthivirajan	Doctor	Sri Annai Hospital	Firstaid	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Capt I V S Ramakrishna	Master Mariner, [FG]	Directorate General of Shipping	Seamanship and Commercial Geography	36.00
2	Capt I V S Ramakrishna	Master Mariner, [FG]	Directorate General of Shipping	Seamanship Practical	36.00
3	Dr K Piruthivirajan	Doctor	Sri Annai Hospital	Firstaid	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr Ajith Seshadri	Ch Eng	Synergy	Seamanship and Commercial Geography	36.00
2	Dr K Piruthivirajan	Doctor	Sri Annai Hospital	Firstaid	30.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	16	16	13
2	No. of peer reviewed conference papers published	2	4	3
3	No. of books/book chapters published	3	2	1

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NIL	NIL	NIL	NIL	NIL	NIL	0.00
						Amount received (Rs.):0.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NIL	NIL	NIL	NIL	NIL	NIL	0.00
						Amount received (Rs.):0.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
NIL	NIL	NIL	NIL	NIL	NIL	0.00
						Amount received (Rs.):0.00

Total Amount (Lacs) Received for the Past 3 Years: NIL**Note*:**

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr C R Jude Ilango	-	Marine Engineering	Ship in Campus Visit	Indus Seafarers Academy	1	0.10
Dr. Capt.N.Kumar	-	Marine Engineering	Reefer Container Course	Maersk Training India Private Ltd	1	0.15
Mr C M Karnan	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Sri Chakkara Maritime college	1	0.20
Dr. Capt.N.Kumar	-	Marine Engineering	Reefer Container Course	Maersk Training India Private Ltd	1	0.15
Mr C M Karnan	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Balaji Seaman Training Institute	1	0.20
						Amount received (Rs.):0.80

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr C M Karnan	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Balaji Seaman Training Institute, Chennai	1	0.20
Mr C R Jude Ilango	-	Marine Engineering	Ship in Campus Visit	Indus Seafarers Academy,	1	0.10
Mr C M Karnan	-	Marine Engineering	GP Rate Trainees Visited Ship in Campus	Balaji Seaman Training Institute, Chennai	1	0.20
Mr C R Jude Ilango	-	Marine Engineering	Ship in Campus Visit	Indus Seafarers Academy	1	0.10
Dr. Capt.N.Kumar	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Balaji Seaman Training Institute, Chennai	1	0.20
Dr. Capt.N.Kumar	-	Marine Engineering	Ship in Campus Visit	Indus Seafarers Academy	1	0.10
						Amount received (Rs.):0.90

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Capt.N.Kumar	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Balaji Seaman Training	1	0.21
Mr C M Karnan	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Balaji Seaman Training Institute, Chennai	1	0.16
Dr. Capt.N.Kumar	-	Marine Engineering	Reefer Container Course	Maersk Training India Private Ltd,	1	0.30
Mr C M Karnan	-	Marine Engineering	GP Rating Trainees Visited Ship in Campus	Balaji Seaman Training Institute, Chennai	1	0.20
Mr C R Jude Ilango	-	Marine Engineering	Visit the Ship-in-Campus	Indus Seafarers Academy,	1	0.10
						Amount received (Rs.):0.97

Total amount (Lacs) received for the past 3 years: 2.67

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
K Ramanujam	Oil Mist Detector	6 Months	0.10	0.09	Working Product Developed
Dr Capt N Kumar	Adaptive Learning System for Nurturing Maritime Education using Ensemble Technique	3 Years	2.00	0.35	Work In progress
Mr Arvind Kishor	Autonomous Marine Vehicle Design	3 Years	1.15	0.42	Design in Progress
			Amount received (Rs.): 3.25		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr C R Jude Ilango	Digital Twin - Engine Room	3 Years	2.00	0.45	Work in Progress
Mr M Rajesh	Effective Propulsive System for green shipping	3 Years	1.75	0.80	Work in Progress
			Amount received (Rs.): 3.75		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr K Ramanujam	Development of Signal Light Column at Engine Room	06 Months	0.20	0.10	Product Developed
			Amount received (Rs.): 0.20		

Total amount (Lacs) received for the past 3 years : 7.20

PART D: Laboratory Infrastructure in the Department (Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	SHIP-IN-CAMPUS	20	MAIN ENGINE	Yes	Mr. Jude Ilango	Senior Marine Faculty	B.E.(Mechanical Eng), Cr
2	FULL MISSION ENGINE SIMULATOR	20	ENGINE SIMULATOR	Yes	Mr. C M Karnan	Senior Marine Faculty	.E.(Mechanical Eng), Chi
3	FULL MISSION BRIDGE SIMULATOR	20	BRIDGE SIMULATOR	Yes	Dr.Capt.N.Kumar	Director	Master Mariner(FG), MIC:

4	ADVANCED MARINE WORKSHOP	20	MAIN ENGINE COMPONENTS	Yes	Mr. Shanmugam Magesh	Senior Marine Faculty	B.E.(Mechanical Eng), MI
5	BASIC WORKSHOP I	20	FITTING	Yes	M. Boopathy	WorkShop Superintendent	ITI, Machinist
6	BASIC WORKSHOP II	20	LATHE AND WELDING	Yes	M. Boopathy	WorkShop Superintendent	ITI, Machinist
7	APPLIED MECHANICS LAB	20	WORM and WORM WHEELS	Yes	Mr. L. Ranjith Kumar	Assistant Professor	M.E (CIM) ,(pHD)
8	STRENGTH OF MATERIALS LAB	20	UNIVERSAL TESTING MACHINE	Yes	Mr. L. Ranjith Kumar	Assistant Professor	M.E (CIM) ,(pHD)
9	CONTROL ENGINEERING LAB	20	SPEED CONTROL OF THREE PHASE INDUCTION MOTOR	Yes	Mr.Mr. Ramanujam K	Assistant Professor	M.E (power Electronics),(
10	ELECTRONICS LAB	20	SERVO STABILIZER	Yes	Mr.J. Chenguttuvan	Assistant Professor	M.E (power System Eng),
11	ELECTRICAL LAB	20	INDUCTION MOTOR(POLE CHANGING METHOD)	Yes	Mr. S. Shanmugam	Assistant Professor	M.E (Power System Eng)
12	ELECTRICAL MACHINES LAB	20	THREE PHASE AC TO DC RECTIFIER	Yes	Mr. S. Shanmugam	Assistant Professor	M.E (Power System Eng)
13	FIRE CONTROL LAB	20	EXTINGUISHERS,SCBA	Yes	Mr. Satheesh Kannan	Shop Superintendent	DME.,Pre-sea Taining
14	HYDRAULIC LAB	20	VENTURI METER	Yes	Mr. Srikarthikeyan S	Assistant Professor	M.E (Manufacture Engine
15	REFRIGERATION & AIR CONDITIONING LAB	20	REFREGERATION KIT	Yes	Mr. Jude Ilango	Senior Marine Faculty	B.E.(Mechanical Eng), Cr
16	BOILER SHOP	20	BOILER	Yes	Mr. Satheesh Kannan	Shop Superintendent	DME.,Pre-sea Taining
17	DIESEL ENGINE LAB	20	DIESEL ENGINE	Yes	Mr. Satheesh Kannan	Shop Superintendent	DME.,Pre-sea Taining
18	COMPUTER LAB I	20	MAXSURF SOFTWARE - STABILITY	Yes	Mr.R.Rajapriyan	Assistant Professor	MCA, M.Tech (CSE), Dip
19	COMPUTER LAB II	20	DG EXAMS SETUP	No	Mr.R.Rajapriyan	Assistant Professor	MCA, M.Tech (CSE), Dip
20	COMMUNICATION LAB	20	EWL - Software	Yes	Mrs. Caroline B	Assistant Professor	M,A., B.Ed.,M.Phil.

21	SEAMANSHIP LAB	20	DIFFERENT TYPES OF CARGO CARRIERS	Yes	Mr K E S Christopher	Nautical Officer	Chief Mate [FG]
22	LSA LAB	20	LIFE BOAT	Yes	Capt Kumar Krishnasamy	Nautical Officer	Master MARiner [FG]
23	FIRE MOCK UP	20	STRUCTURE MOCK UP	Yes	Mr. Jude Ilango	Senior Marine Faculty	B.E.(Mechanical Eng), Cr
24	FIXED FIRE FIGHTING SYSTEM	20	FIRE FIGHTING SYSTEM	Yes	Mr. Jude Ilango	Senior Marine Faculty	B.E.(Mechanical Eng), Cr

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Ship-in-Campus	<ul style="list-style-type: none"> • Ensure proper ventilation in engine room area • Maintain fire extinguishers and emergency alarms • Use PPE such as helmet, gloves and safety shoes • Store fuel and lubricants safely • Provide clear emergency exit pathways
2	Full Mission Engine Simulator	<ul style="list-style-type: none"> • Maintain stable power supply with UPS backup • Ensure proper cooling and ventilation for computers • Avoid liquids near simulator consoles • Check emergency shutdown systems regularly • Allow only trained operators to use the simulator
3	Full Mission Bridge Simulator	<ul style="list-style-type: none"> • Maintain proper electrical wiring and earthing • Keep walkways clear around simulator stations • Ensure proper lighting in simulator room • Regularly check communication systems and alarms
4	Advanced Marine Workshop	<ul style="list-style-type: none"> • Use PPE such as goggles, gloves and safety shoes • Ensure machine guards are installed • Maintain proper tool storage • Provide first aid kit and emergency stop switches
5	Basic Workshop I	<ul style="list-style-type: none"> • Wear protective clothing and safety shoes • Use hand tools properly • Maintain clean work area • Follow instructor safety instructions
6	Basic Workshop II	<ul style="list-style-type: none"> • Inspect machines before operation • Avoid loose clothing near machines • Maintain proper lighting and ventilation • Keep fire extinguishers accessible
7	Applied Mechanics Lab	<ul style="list-style-type: none"> • Handle apparatus carefully • Avoid overloading experimental setups • Ensure instruments are calibrated • Follow instructor guidance during experiments

8	Strength of Materials Lab	<ul style="list-style-type: none"> • Maintain guards on testing machines • Keep safe distance during load testing • Check machine setup before testing • Use emergency stop when required
9	Control Engineering Lab	<ul style="list-style-type: none"> • Avoid contact with live circuits • Maintain proper grounding • Use insulated tools • Keep liquids away from electrical equipment
10	Electronics Lab	<ul style="list-style-type: none"> • Use anti static precautions • Switch off power before modifying circuits • Avoid short circuits and overloading • Keep wiring organized
11	Electrical Lab	<ul style="list-style-type: none"> • Ensure proper earthing of equipment • Use insulated gloves and tools • Display electrical hazard warnings • Maintain emergency power shut off
12	Electrical Machines Lab	<ul style="list-style-type: none"> • Install guards around rotating parts • Avoid touching rotating machines • Check insulation and wiring regularly • Maintain grounding
13	Fire Control Lab	<ul style="list-style-type: none"> • Maintain fire alarms and extinguishers • Provide fire safety training • Ensure clear evacuation routes • Conduct fire drills
14	Hydraulic Lab	<ul style="list-style-type: none"> • Inspect hoses and pipelines for leaks • Maintain safe pressure limits • Use gloves when handling fluids • Clean oil spills immediately
15	Refrigeration & Air Conditioning Lab	<ul style="list-style-type: none"> • Check refrigerant leakage • Ensure proper ventilation • Use correct tools for compressor work • Avoid exposure to refrigerant gases
16	Boiler Shop	<ul style="list-style-type: none"> • Maintain safe distance from hot surfaces • Inspect pressure gauges and safety valves • Ensure good ventilation • Keep fire extinguishers ready
17	Diesel Engine Lab	<ul style="list-style-type: none"> • Ensure exhaust ventilation • Avoid contact with moving engine parts • Use hearing protection if needed • Store fuel safely
18	Computer Lab	<ul style="list-style-type: none"> • Maintain cable management • Avoid food or liquids near computers • Ensure cooling and ventilation • Follow electrical safety practices

19	Computer Lab II	<ul style="list-style-type: none"> • Maintain UPS backup • Check electrical connections • Keep systems updated and secure • Ensure safe seating and workspace
20	Communication Lab	<ul style="list-style-type: none"> • Ensure proper electrical grounding • Use equipment according to specifications • Avoid interference with communication devices • Maintain safe wiring practices
21	Seamanship Lab	<ul style="list-style-type: none"> • Use safety gear during rope work • Maintain ropes and anchors properly • Avoid overcrowding during practice • Ensure instructor supervision
22	LSA Lab	<ul style="list-style-type: none"> • Inspect life jackets and lifeboats regularly • Conduct emergency drills • Store equipment properly • Ensure easy access to lifesaving appliances
23	Fire Mock Up	<ul style="list-style-type: none"> • Conduct training under supervision • Keep fire extinguishers ready • Ensure water supply availability • Use protective clothing during drills
24	Fixed Fire Fighting System	<ul style="list-style-type: none"> • Inspect fire suppression systems regularly • Maintain pressure in hydrants and pipelines • Conduct periodic system testing • Keep emergency access routes clear

D3. Project Laboratory/Research Laboratory

The projects are being carried out by effectively utilizing the facilities available in the college laboratories. The institution provides well-equipped laboratories with modern machines, measuring instruments, tools, and software that support practical learning and research activities. These facilities enable students to implement their project ideas and convert theoretical concepts into practical applications. The laboratory environment offers a structured platform where students can explore, design, fabricate, and test various engineering systems related to their field of study.

During the course of the project work, the available laboratory equipment is extensively used for conducting experiments, collecting data, fabricating components, and performing testing procedures. The laboratory provides access to essential equipment such as measuring devices, machine tools, testing instruments, and computer systems that are necessary for the successful execution of the project. Students utilize these facilities to verify design calculations, analyze performance parameters, and evaluate the results obtained from experiments.

Faculty members and laboratory instructors play an important role in guiding the students throughout the project work. Their supervision ensures that the experiments and testing procedures are carried out in a safe and systematic manner. They also assist students in selecting appropriate equipment, understanding operational procedures, and troubleshooting any technical difficulties that may arise during the experimentation process. This guidance enhances the quality and accuracy of the project outcomes.

The availability of laboratory facilities within the college campus provides students with the opportunity to perform repeated trials and modifications in their project work. This helps them improve the design, identify possible errors, and optimize the performance of the developed system. Through continuous experimentation and analysis, students gain a deeper understanding of engineering principles and their practical applications.

In addition, working in the laboratory environment helps students develop important technical skills such as equipment handling, measurement techniques, data analysis, and problem-solving abilities. It also encourages teamwork, innovation, and critical thinking among students. By actively participating in laboratory activities, students become more confident in applying engineering knowledge to real-world challenges.

Therefore, the college laboratories serve as an essential resource for the successful completion of student projects. The availability of modern infrastructure, technical support, and academic guidance creates a productive learning environment that promotes experimentation, research, and innovation. The effective utilization of these facilities significantly contributes to the overall quality and success of the project work carried out by the students.

PART E: First Year faculty and financial Resources
(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2023-24(CAYm2)	120	6	0	0	0
2024-25(CAYm1)	120	6	0	0	0
2025-26(CAY)	120	6	0	0	0

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	41500000	40445669	32000000	29808314	495000000	404091211	450000000	441579580
Library	1500000	1500500	1000000	18241059	18000000	16550838	15000000	14581568
Laboratory equipment	50550000	48268633	774000000	765343478	244600000	239072843	190000000	185166231
Teaching and non-teaching staff salary	575000000	552956940	950000000	926233709	750000000	732899623	650000000	643173375
Outreach Programs	7000000	6507548	20000000	15908349	20000000	17914760	10000000	9786818
R&D	4700000	4512542	95000000	92145621	90000000	89421345	85000000	82894782
Training, Placement and Industry linkage	8000000	7589451	15100000	15090744	10000000	8187632	5700000	5590661
SDGs	1100000	1054684	3000000	2389456	3000000	2087421	2000000	1887892
Entrepreneurship	4000000	3945124	7600000	7569845	7000000	6975415	7000000	6745215
Others, specify	1100000000	1072101428	1275000000	1271936625	775000000	751385022	800000000	778654506
Total	1793350000	1738882519	3172700000	3144667200	2412600000	2268586110	2214700000	2170060628

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	100000	60000	500000	495000	200000	192000	20000	18500
Software	550000	550000	0	0	0	0	0	0
SDGs	80000	40000	10000	10000	10000	10000	7500	7500
Support for faculty development	120000	40000	100000	100000	100000	100000	230500	220000
R & D	70000	35000	25000	25000	25000	25000	50000	50000
Industrial Training, Industry expert, Internship	10000	5000	15000	15000	15000	15000	22500	22500
Miscellaneous Expenses*	1000000	800000	1000000	1000000	1500000	1500000	1250000	1250000
Total	1930000	1530000	1650000	1645000	1850000	1842000	1580500	1568500