

# CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING (CEMS)

CIN: U74999MH2017NPL300514

( A section 8 Private Limited Company promoted by Indian Register of Shipping)

52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai-400 072, India.

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GST No.: 27AAHCC2313E1Z5

### MEMORANDUM OF UNDERSTANDING (MOU)

### Between

Centre of Excellence in Maritime & Shipbuilding (CEMS) Mumbai, Maharashtra.

And

VDF School of Engineering and Technology (VDF SOET) Latur, Maharashtra.



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This MOU is entered into on the 28th day of January, 2022 by and between;

Centre of Excellence in Maritime & Shipbuilding (CEMS) was established as' not for profit company' under Section 8 of the Indian Companies Act, 2013, "CEMS" a company promoted and operated by Indian Register of Shipping, having its registered office at 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India. CEMS" (which expression shall unless repugnant to the context or meaning there of be deemed to mean and include its successors and assigns) of the first part;

#### And

VDF School of Engineering and Technology, Represented by Principal, a duly constituted authority. "VDF SOET" (which expression shall unless repugnant to the context or meaning there of be deemed to mean and include its successors and assigns) of the Second Part;

#### Preamble:

- 1. Centre of Excellence in Maritime and Shipbuilding is a well-funded start up in skill development for maritime and the ship building sector. It is promoted by Indian Register of Shipping, Sagarmala, Ministry of Shipping/ Govt of India along with M/s Siemens Industry Software (India) Private to provide globally relevant skilled technical manpower in the latest manufacturing technologies in Maritime, Ship Building and Manufacturing sectors.
- 2. CEMS is a dedicated centre for facilitating Professional development and skill enhancement in Maritime, Infrastructure and Manufacturing sectors. We aim to build competency in the field of maritime by imparting right skills and create skilled manpower pool to cater to current and future industrial landscape of the Country.
- 3. A world class Centre of Excellence has been established in Visakhapatnam and Mumbai which will run paid courses for domestic and international audience at - Basic, Intermediate and Advanced levels. These courses are designed and implemented by Siemens and its domain partners who provide the latest technical expertise in these areas.

### 4. CEMS Focus:



Qualitative improvements in Technical Education

Improvements in labs infrastructure by adopting latest open technologies in Engineering design, Manufacturing, Analysis and Management to serve the needs of targeted industries.

Train students in CAD, CAM, CAE, Advance Manufacturing and design to improve employability.

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- Facilitate the pursuit of career opportunities by up skilling of ITI's, Diploma Graduates, Under Graduates, Post Graduates, Research Scholars and working professionals
- Enable technology adoption by Students and Faculties of the colleges through the State-of-the-art Manufacturing and Digital technologies.
- Create skilled manpower pool to cater to current and future industrial landscape of the region. Availability of trained workforce to attract industries to set up units in the coastal regions.
- Promote Industry Academia partnership. Establish industry partnerships to guide, support, and validate industry relevant learning activities
- Promote innovation, assist exploratory research projects to foster relevant Industry innovation
- · Skill up-gradation of faculty.
- Update course curriculum to align with modern industrial practices.
- Serve as a knowledge base and thought leader for the targeted disciplines
- The program leverages Siemens technologies to develop curriculum as per industry processes to cultivate future professionals and academic faculty. The program offers courses for Beginner, Intermediate and Advanced Levels. The program involves continuous training, monitoring and assessment of students.
- Would create a web-based platform, where all students will be enlisted.
- Continuous evaluation of students through tests and assignments. The students will be required to complete the assessments before they get certification.
- To enable students, transcend the knowledge barrier, Siemens has designed selfdirected interactive learning solutions that can transform the process of educating novice users on complex products and processes. These self-directed learning solutions provide better retention, shorter learning curves and increase productivity.
- Self-Directed Interactive Digital training approach creates an efficient solution for users to get trained on products and processes. A student is taught to use the product or understand the process in a simulated engineering environment. The effectiveness of learning is enhanced as it engages learners with interactivity and multimedia along with the demonstration of various procedures, practicing the steps, and interactive assessment. It also provides flexibility to learn anytime with self-paced learning and evaluation.



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5. <u>CEMS Training Labs</u>: Following training labs have been set up at Mumbai/ Vizag as listed below

SI No	LABS	Available at (Centre)	Туре
1	Product Design and Validation		
2	Advanced Manufacturing		
3	Test and Optimization Lab	2	
	Nesting- Productivity	Mumbai and Vizag	Software
4	Improvement Lab		
	Dimensional Accuracy Control		1
5	System		
6	Hull Design		
7	Research Machine Shop		
8	Automation	<u>@</u>	
9	Mechatronics	<u> </u>	
10	Welding Technology	*	
11	Robotics		
12	Process Instrumentation	Vizag	Hardware
13	Electrical		
14	Pneumatics & Hydraulics		
15	Virtual Reality	11	
16	Pumps Training System		
17	Piping Training System		
18	Radar System		

- 6. Vilasrao Deshmukh Foundation Group of institution (VDFGOI), Latur having its Registered Office at Latur, Maharashtra. hereinafter referred to as "VDF School of Engineering and Technology, Latur", is an educational institution affiliated to DBATU, Lonere Dist.Raigad.
- 7. CEMS is launching its College Extension program to all Engineering Institutions & Colleges for their students and teaching staff. Under this College Extension program, CEMS will provide following facilities to the college on a non-exclusive basis at its Mumbai / Vizag Centre;
  - a. Students Trainings (available for B. Tech & MTech students) on various technologies available at CEMS Centre's.
    - Short term courses (average 40 hrs of training) as part of Credits (Course curriculum) or optional
    - Diploma & Certificate courses (average 200 hrs of training) as part of II. credits (Course curriculum) or optional
    - Weekend / semester vacation courses III.
    - Training for pass out students. IV.

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- b. Faculty Development Program at CEMS Centres
- c. Internships as per AICTE guidelines at CEMS by participating institutes students
  - Internship Programs for Credits
  - II. Visit to CEMS Vizag as part of Industrial visit/ Internship Program for exposure to all engineering disciplines (as per 18 labs, details attached before)
- d. Customized courses for students & faculties as per the requirement.
- e. Availability of Labs for undertaking Industry Projects and experiments.
- f. Teaching staff or research scholars of the participating institute can use resources of CEMS for their thesis work.
- g. All courses of CEMS shall be certified by Siemens and Indian Register of Shipping (IRS).
- h. Students and teaching staff of the participating institute can explore CEMS resources such as lab infrastructures, teaching staff, courses and its certification, and highly level industry relevant course materials & IP's.

#### WHEREAS:

- 1. In pursuant to Memorandum of Understanding signed between Centre of Excellence in Maritime and Shipbuilding (CEMS) and VDF School of Engineering and Technology (VDF SOET), this agreement is entered.
- 2. To detail areas of cooperation between the parties in areas of academics, certification, student's allocation for undertaking certificate courses at CEMS, teaching & technical staff allocations for Train the Trainer (ToT) program.
- 3. To fix VDF SOET Teaching Staff schedule for their trainings under Train the Trainer program (ToT) at CEMS. CEMS and the College shall mutually decide the schedule based on the availability of teaching staff and the lab infrastructure.

CEMS and VDF SOET have mutually discussed and agreed to enter into this agreement as detailed hereinafter.

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NOW THEREFORE, in consideration of the mutual promises contained herein and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties agree

- 1. CEMS has invited VDF SOET to participate under its "CEMS College Extension Program (CEP)".
- 2. Under CEMS CEP, participating college shall assign their regular students based on the student's specific interest to CEMS Mumbai/Vizag centre for stated period as per mutually decided timings.
- 3. The courses offered to the students are of three categories;
  - a. Basic / Foundation Level courses Average study of 40 hours.
  - b. Intermediate / Master Level Courses Average study of 70 hours.
  - c. Advance / Expert Level Courses Average study of 100 hours.

Further for comprehensive training in each domain, Diploma and Certificate Programs which are of average 200 study hours are offered.

- 4. The course fee for each of the course is charged based on per student per course basis. Fees for the courses will be communicated to the college based on selection of the courses.
- 5. CEMS shall on its own can club few courses or modules as per the current industry needs and can make bigger or smaller duration courses to suite the academic needs containing elements from basic, intermediate or advance courses. Such courses and fee per student will be proportionate to duration of the course.
- 6. The participating college shall provide the students of its college as per the time table decided for the course enrolled by its students. The participating college will treat the time spent by its students at CEMS as regular attendance for its academic regulations.
- 7. CEMS shall take responsibility of the student's attendance for the time they are enrolled with CEMS.
- 8. The participating college shall provide its transport facility to students wherever possible to attend CEMS classes. Otherwise, transportation will be responsibility of students.
- 9. CEMS will coordinate with VDF SOET to Support for placement of students trained at CEMS (Mumbai and Vizag), subject to available opportunities and students' profile.
- 10. CEMS will also suggest and recommend students for additional training, if required for any such placement opportunities at a Nominal Fees.
- 11 This MoU will have tenure of Three (3) years from the date of signing, after which a renewal MoU shall be signed extending the facilities mutually.

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## 12. LIMITATION OF LIABILITY

Except as agreed and provided under this Agreement, none of the Parties shall be liable to bear or pay any damages arising out of loss of income, loss of profit, special, incidental, such damages are expressively disclaimed.

# 13. DISPUTE RESOLUTION

The Parties shall endeavour to resolve all or any dispute arising out of or in connection with this Agreement, amicably within 30 days of notice being issued by the non-defaulting party to the defaulting party. In case no amicable solution is arrived between the Parties within 60 days of the notice, then such dispute/s shall be settled through arbitration as per the provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time.

### 14. UNCONTROLLABLE CIRCUMSTANCES

If the performance of any part of this Agreement by **CEMS** and **VDF SOET** is prevented or delayed by acts of civil or military authority, flood, fire, epidemic, war or riot, or other acts beyond the reasonable control of either party, the party affected shall be excused from such performance only during the continuance of any such event.

#### 15. SEVERABILITY

If any provision or provisions of this Agreement shall be held to be illegal, invalid or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired there by and the parties hereto agree to replace the illegal or unenforceable provisions with valid provisions which are as close as possible to the illegal or unenforceable provisions in their respective meaning, purpose, and commercial effect within reasonable time.

### 16. GOVERNING LAW AND JURISDICTION

This Agreement shall be governed and construed in accordance with the laws of India and subject to the arbitration clause mentioned above, the courts of Mumbai shall have the jurisdiction to entertain any dispute or suit arising out of or in relation to this Agreement.

#### 17. PUBLICITY

No parties shall make any public disclosure, except as may be required by applicable law, relating to discussions and or terms related to this Agreement, without obtaining the prior written consent of the other party. No party shall use and nor shall it let its employees, agents and subcontractors use the name, trademark or logo of other party in any sale, marketing publication, advertisement, or other publication without prior written permission of other party. No party shall make, or let its employees, agents or subcontractors make, any public statement relating to any other party.

#### 18 MODIFICATION, AMENDMENT, SUPPLEMENT OR WAIVER

No modification, amendment, supplement to or waiver of this Agreement or any of its provisions shall be binding upon the parties hereto unless made in writing and duly signed

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the authorized representative of the party against whom enforcement thereof is sought. A failure or delay of any party to this Agreement to enforce at any time any of the provisions of this Agreement or to exercise any option which is herein provided, or to require at any time performance of any of the provisions hereof, shall in no way be construed to be a waiver of such provisions of this Agreement.

### 19. ENTIRE AGREEMENT

This Agreement together with all Appendices, Exhibits, Schedules, Attachments and Addenda, if any, attached hereto constitute the entire agreement between the parties and supersedes all previous agreements, promises, representations, understandings and negotiations, whether written or oral, between the parties with respect to the subject matter hereof.

This Agreement is prepared in two originals and each party shall retain one copy. Each copy shall be treated as original when taken separately and shall constitute as one when taken together.

# Courses Offered at CEMS Mumbai & Vishakhapatnam (Software & Hardware Courses)

### a. Diploma & Certificate Courses

	Title	Duration (hrs)	Offered at	
SI No	Course Title	200	Mumbai & Vizag	
1	Diploma in CAD	150	Mumbai & Vizag	
2	Diploma in CAE	200	Vizag	
3	Diploma in Digital Manufacturing	200	Mumbai & Vizag	
4	Diploma in PLM	-	Mumbai & Vizag	
5	Certificate Course in Surfacing	100	Mumbai & Vizag	
6	Certificate Course in Process & Plant Design	100	Vizag	
<del></del> 7	Diploma in Robotics	250	Mumbai & Vizag	
8	Certificate Course in Plate Nesting	120	Vizag	
9	Diploma course in NVH	150	Vizag	
<u> </u>	Diploma course in Automation &	200	VIZAB ,	
10	Mechatronics		Vizag	
11	Certificate course in Process	100	AIZOB	
11	Instrumentation		Vizag	
12	Cortificate course in Drives & Switchgears	120	/izag	
13	Diploma course in Pneumatics & Hydraulics	200	Vizag	
13 14	Certificate course in Virtual Reality	50	Vizag	
1 <del>4</del> 15	Certificate course in Radar System	60		

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Lab wise Certificate Courses

STNO	Lab Details	Course Name	Course		
			Course Level	<b>Duration (Hrs)</b>	
1		<b>Essentials for Designers</b>	D	(3)	Offered
2		Sketching Fundamentals	Basic	40	-
3		Synchron	Intermediate	16	
		Synchronous Modelling	Intermediate	0	
1		Fundamentals	- and to	8	
,		NX Sheet Metal	Intermediate	1.0	
;		Drafting Essentials	Intone	16	
		Intermediate Design &			
		Assemblies	Intermediate	16	Mumba
	Dunalisan	Advanced Assembly	A.1		Vizag
	Product Design and	Design	Advance	60	
3	Validation (PDV)	Class			
		Class A Free Form Modelling	Advance	40	
		ivialiulacturing	Basic	24	-
.0		Fundamentals			
		Turning Manufacturing	Intermediate	24	-
1		Process			
12		Engine Design	Advance	35	
		Advanced Simulation	Intermediate	60	-
L3		Composite & Structure	Intermediate		4
		Assembly	intellinediate	40	
14		TCUA - Using TC	Basic	22	
		0.0	Dasic	32	
15		TCUA - Installation	Basic	40	4
16		TCUA - Integration for		40	Mumbai
		NX users	Intermediate	8	Vizag
17	Advanced	TCUA- Application &	A d		Vizag
	Manufacturing	Data Model	Advance	40	
		Administration			
18		Tecnomatix – Process	Into ma a diata	40	1
19		Tecnomatix – RobCAD	Intermediate	40	-
20			Intermediate	150	
21		Tecnomatix – Flow	Intermediate	50	
~1		Vibration	Intermediate	20	
		Measurements and			
22	-	Analysis  Modal Testing and	Intermediate	30	
22			intermediate	30	Vizag
23	Test and	Analysis Acoustics	Intermediate	30	
-	Optimization Lab	Measurements and	mitermediate	50	
Naritime d		Analysis		/	
24	1/8/N	Acoustics NVH	Intermediate	20	
113	(C. )	Simulation			
25	<i>₹/3//</i>	Multi body dynamics	Advance	30	

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		Advanced Finite Elemen	nt Advance	90	
		Analysis (FEA)		30	Mumbai &
	Nesting-	Nesting Productivit	y Intermedia	te 120	Vizag
127	productivity	Improvement		120	
/	Improvement Lab				
28	Dimensional	Dimensional Accurac	y Intermedia	te 120	
	Accuracy Control	Control			Mumbai :
	System				Vizag
29	Hull Design	Hull Design	Advance	120	
30		TURNING-Numerical	Intermediat		
	Research Machine	<b>Control Programming</b>			
31	Shop	MILLING-Numerical	Intermediat	e 32	
	энор	Control Programming		-	
32		840Dsl	Advance	120	
33		Basics of PLC	Basic	40	Vizag
34		Basics of HMI &			
	Automation	NETWORKING	meermediat	- 40	
35		Basics of SCADA	Basic	50	
36	Mechatronics	Basics of Mechatronics	Intermediate		
37	Welding	Welding	Intermediate		
	Technology		mediate	.   00	
38	Robotics	Use and Programming of	Advance	120	
		Industrial Robots			
39	Robotics	Robotics Applications	Advance	120	
40	Process	Basics of Process	Intermediate	40	
	Instrumentation	Instrumentation			
41		Basics of PCS 7	Intermediate	50 ,	
42		Basics of AC/DC Drives	Basic	40	
43		Basics of Low Voltage	Intermediate	40	
	Electrical	Switchgear-1			
44		Basics of Low Voltage	Intermediate	40	Visas
		Switchgear-2			Vizag
45	Pneumatics &	Pneumatics	Intermediate	50	
46	Hydraulics	Hydraulics	Intermediate	50	
47	Virtual Reality	Virtual Reality	Intermediate	50	
48	Pumps Training	<b>Pumping System</b>	Basic	50	
	System				
49	Piping Training	Piping System	Basic	60	
	System			60	
50	Radar System	Radar systems	Advance	60	

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This Agreement is prepared in two originals and each party shall retain one copy. Each copy shall be treated as original when taken separately and shall constitute as one when taken together.

In witness hereof, the Centre of Excellence in Maritime & Shipbuilding (CEMS), and VDF School of Engineering and Technology (VDF SOET) have executed those presently in manner herein after mentioned on the <u>28th day of January 2022.</u>

SIGNED ON BEHALF OF				
Centre of Excellence in Maritime and Shipbuilding (CEMS)	VDF School of Engineering and Technology (VDF SOET)			
Name: Ramesh Yadav  Signature: Zoweby	Name: Dr. Mohan V. Buke			
Signature: Journal V	Signature:			
Institutional Connect				
Stamp:	Designation: Principal			
CE: 145 Conting of Excellance	Educity Co Te Latur			
Witness:	The state of the s			
Name: Ganesh Kharabe	Name: Mr.Anil R.Biradar			
Signature: Wardin	Signature:			
Designation: Manager Marketing and Institutional Connect	Designation: Head, T & P Cell, VDF SOET			

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Anil R. Biradar Head

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