


**AQAR 2021-2022**

3.7.2 Details of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the year (only functional MoUs with ongoing activities to be considered)

Sl. No.	Name of the institution/ industry/ corporate house	Month and Year of signing MoU	Duration	List of activities under each MOU	Number of students/teachers who benefitted from MoUs
1	HMI ENGINEERING SERVICES	16.04.2022	NA	Internships & workshops	103
2	TECK TEAM SOLUTIONS	Apr-22	NA	Internships	45
3	CEMS	25.09.2019	3 years	Skill Training	63
4	APSSDC	Jul-19	3 years	Skill Training	NIL
5	TILICHO Labs	12.03.2022	NA	Pre Placemnet and Training	
6	Image innovate Tech Solutions Pvt. Ltd.	Jun-21	NA	Skill Training	
7	Buddica Smart Life India pvt. Ltd	Dec-21	3 years	One credit course training	113
8	AXIOM IO	25.09.2021	5 years	Pre Placemnet and Training	
9	CEMS	04.10.2021	NA	One credit course training	120
10	VIHAAN ELECTRIX	27.04.2022	NA	Internships & workshops	12
11	TILICHO Labs	12.03.2022	NA	Pre Placemnet and Training	3
12	Luca Industies International	21.09.2021	NA	Technical support in the academics, Internship program to the staff	75
13	Marutham Group Builders and Promoters	06.11.2021	5 years	Designing the Course, teaching Methodology , Ppre- placement offer based on Vacancy Positions	75
14	AXIS Global Automation	10.08.2021	3 years	Employability Skills	60
15	Andhra Pradesh State Skill Development Corporation (APSSDC)	21.06.2019	3 years	Skill Training	60
16	CEMS	25.09.2021	3 years	Skill Training	60
17	GCGEMS-GC German center for Engineering and Management studies UG Hachen and European center for Mechatronics APS Gmbh Aachan	15.02.2019	3 years	Skill Training	60

  
**PRINCIPAL**  
**N.S. RAJU INSTITUTE OF TECHNOLOGY**  
**(AUTONOMOUS)**  
**SONTYAM, ANANDA PURAM**  
**VISAKHAPATNAM-531175**

# **MEMORANDUM OF UNDERSTANDING(MOU)**

**BETWEEN**



**NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF  
TECHNOLOGY  
(AUTONOMOUS)  
SONTYAM, VISAKHAPATNAM**

**&**

**HMI ENGINEERING SERVICES  
VISAKHAPATNAM**

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 16<sup>th</sup> day of - Apr- Two Thousand Twenty-Two (2022),

### BETWEEN

**Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, AP India** - the **First Party** represented herein by its **Dr RAJA MURUGADOSS J - DIRECTOR** (hereinafter referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

### AND

**HMI Engineering Services, Flat no:- 101, Rajashekar Residency, Srinagar Vishakhapatnam - 530016, the Second Party**, and represented herein by its CEO, **DINESH KUMAR HIRAWAT** (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as '**Parties**' and individually as '**Party**')

### WHEREAS:

- A) First Party Is a Higher Educational Institution named: **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, (AP), India**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.

- E) - **HMI Engineering Services**-, the Second Party is engaged in Business, Software Consultancy, Skill Development, Education and **R&D Services** in the fields of - *Robotic Process automation, cognitive technology, AI/ML, Data Science, Information Securities, Cyber Securities solutions.*
- F) - ,the Second Party is promoted by Dinesh Kumar Hirawat F NO -101, Rajashekar Residency , Srinagar Vishakhapatnam AP 530016

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall **establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings.** The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the **intellectual capabilities of the faculty of First Party** providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The **general terms of co-operation shall be governed by this MOU.** The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as

to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

## **CLAUSE 2 SCOPE OF THE MoU**

- 2.1 To establish Industry - Sponsored Laboratory for developing products involving in Multidisciplinary approach.
- 2.2 The second party will provide Industry Trainers and few equipment's / electronic components to enable the students for product development.
- 2.3 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an Industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.4 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.5 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the Industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.6 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for

disseminating the Internship opportunities available with them.

- 2.7 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of - - **Cognitive Automation & Artificial Intelligence/Machine Learning Data Science/Robotics**
- 2.8 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.9 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in-house requirements.
- 2.10 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.11 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.12 There is no financial commitment on the part of the **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam**, the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

### **CLAUSE 3 INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.



Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **VISAKHAPATNAM**.

**AGREED:**

For Name of Institution

Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, AP, India.

For Name of Industry

HMI Engineering Services.

Authorized Signatory

Authorized Signatory

Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, Ap, India	HMI Engineering Services
Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, Ap, India	Flat no :101 Rajashekar Residency V-hotel Lane RTC Complex Vishakhapatnam; -530016
Dr. Raja Murugadoss, DIRECTOR	Dinesh Kumar Kothawat - CEO
E-mail: director@nscrit.edu.in	Info.hmi@hmiies.com
N.E. Raju Institute of Technology (A) 531173	https://www.hmiies.org

Witness1:

*[Signature]*

Witness2:

*[Signature]*

Witness3:

*[Signature]*

Witness4:

*[Signature]*  
to be kept

#### CLAUSE 4 VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, (AP), India** the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of Training Partner or **HMI Engineering Services**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

#### CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party

Dr. J. Raja Murugadoss  
Director

Dr. J. Raja Murugadoss  
Director

N.S. Raju Institute of Technology (A)  
Sontyam, Visakhapatnam-531173

Second Party  
Dinesh Kumar Mrawat  
CEO





# **MEMORANDUM OF UNDERSTANDING (MOU)**

**BETWEEN**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF  
TECHNOLOGY  
(AUTONOMOUS)  
SONTYAM, VISAKHAPATNAM**

**&**



**TECK TEAM SOLUTIONS**

**VISAKHAPATNAM**

## MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 27<sup>th</sup> day of - Apr- Two Thousand Twenty-Two(2022).

### BETWEEN

**Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, AP India** -the **First Party** represented herein by its **Dr RAJA MURUGADOSSJ -DIRECTOR** (hereinafter referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

### AND

**Teck Team Solutions, Door No:1-20/1, Pulagalipalem, Juttada Road, Pendurthi, Vishakhapatnam - 531173, the Second Party**, and represented herein by its CEO, **N. VENKATA REDDY** (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

### WHEREAS:

- A) First Party is a Higher Educational Institution named;  
**Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, (AP), India**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.

*N Venkata Reddy.*



- E) - **Teck Team Solutions** -, the Second Party is engaged in Business, Skill Development, Education and R&D Services in the fields of - *Robotic Process automation, Embedded System, Artificial Intelligence/Machine Learning, Internet of Things.*
- F) - ,theSecond Party is promoted by N. Venkata Reddy, Door No:1-20/1, Pulagalipalem, Juttada Road, Pendurthi, Vishakhapatnam - 531173

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

#### **CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for oneanother.
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*N. Venkata Reddy*



## CLAUSE 2 SCOPE OF THE MoU

- 2.1 To establish Industry-Sponsored Laboratory for developing products involving in Multidisciplinary approach.
- 2.2 The second party will provide Industry Trainers and few equipment's / electronic components to enable the students for product development.
- 2.3 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
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*A. Venkata Reddy*

*[Signature]*

- 2.7 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of - - *Embedded System, Internet of Things, Artificial Intelligence/Machine Learning /Robotics.*
- 2.8 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
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- 2.12 There is no financial commitment on the part of the **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam**, the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

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N Venkata Suddhy



#### CLAUSE 4 VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, (AP), India** the Second Party, as the case may be, will take effective steps for Implementation of this MOU. Any act on the part of **Training Partner** or **Teck Team Solutions**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

#### CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party

 Dr. J. Raja Murugadoss  
Director

  
Second Party

N. Venkata Reddy  
CEO

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of VISAKHAPATNAM.

**AGREED:**

For  
Nadimpalli Satyanarayana Raju Institute of  
Technology, Visakhapatnam, AP, India.

Authorized Signatory  
**Dr. J. Raja Murugadoss**  
Director

N.S. Raju Institute of Technology (A,  
Society), Nadimpalli Satyanarayana Raju  
Institute of Technology,  
Visakhapatnam, AP, India

Nadimpalli Satyanarayana Raju  
Institute of Technology,  
Visakhapatnam, AP, India

Dr. Raja Murugadoss - DIRECTOR

E-mail: director@nsrit.edu.in

<http://www.nsrit.edu.in>

For  
Teck Team Solutions  
Visakhapatnam, AP, India.

*N. Venkata Reddy*  
Authorized Signatory 27/4/22

Teck Team Solutions

Door No:1-20/1,  
Pulagalipalem,  
Juttada Road, Pendurthi,  
Vishakhapatnam - 531173.

N. VENKATA REDDY-CEO

teckteams@gmail.com

<https://www.teckteams.com>

Witness1:

*[Signature]*  
27/4/22.

Witness3:

*[Signature]*

Witness2:

*[Signature]*  
27/4/22.

Witness4:

*[Signature]*  
27/4/22



Estd. 2008



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY



(Approved by AICTE, New Delhi || Affiliated to JNTUK, Kakinada || ISO 9001:2008 Certified Institute)

Recognized under 2(f) of the UGC Act 1956 || Accredited by NAAC with 'A' Grade (3.10/4.00)

B.Tech M.Tech MBA Diploma

web: www.nsr.it.edu.in mail: office@nsr.it.edu.in

## MEMORANDUM OF UNDERSTANDING

Between

NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY

Sontyam, Visakhapatnam  
Andhra Pradesh, INDIA

And

CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING (CEMS)

Opp.HSL Complex, Gandhi gram, Visakhapatnam - 530 005

### GENERAL Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, Nadimpalli Satyanarayana Raju Institute of Technology, hereinafter addressed as NSRIT and Centre of Excellence in Maritime & Shipbuilding, hereinafter addressed as CEMS, agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

### ARTICLE I

#### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from NSRIT to CEMS. The purpose of these visits by the faculty is primarily to facilitate the following:

- Training of the faculty by member of CEMS on Design, Advanced Manufacturing and as well as on Automation
- Training and exposure of faculty with focus on Industry 4.0 Skills

Arrangements for each such visit will be made by NSRIT. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to CEMS by NSRIT at least two weeks prior to the proposed visit.

CEMS will be Conducting Orientation Programs to Faculty Free of Cost and Faculty Development Training at 50% cost of the fees charged from Students.





## ARTICLE II

### Student Training

Further to the above, it is also agreed that CEMS will support and facilitate visits of groups of students from NSRIT. The purpose of these visits by the students is as follows:

- \* Industrial visits at II year level to study and understand functioning of an industrial establishment
- \* Industrial visit at III year level to undertake mini-projects and pilot studies for full-fledged projects
- \* Vocational training in design, Advanced Manufacturing and Automation to equip students at III year or IV year levels to acquaint themselves with industry 4.0 procedures and operations so as to prepare themselves to face the challenges of the industrial world upon graduation

As in the case of Article I, arrangements for each such visit will be made by NSRIT in the form of formal letters seeking permission as well as the convenience of CEMS to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to CEMS by NSRIT at least two weeks prior to the proposed visit. CEMS will charge a Nominal fee of Rs 8000 plus 18% GST for one Month, which includes two Modules of 40 hrs each. Cost of Raw Material required for projects, where applicable will be borne by the Students.

**Center of Excellence in Maritime & Ship Building Visakhapatnam**, has excellent infrastructure and qualified trainers and man power to impart skill training and to offer Diploma and Certificate courses as follows: -

#### Diploma in following courses

Sl No	Course	Modules Covered	Eligibility
1	CAD	Essentials for Designers, Sketching Fundamentals, Synchronous Modelling Fundamentals, NX Sheet Metal, Drafting Essentials, Intermediate Design & Assemblies, Advanced Assembly Design, Class A Free Form Modelling, Engine Design, Laminate Composites	B.Tech-Mechanical
2	CAE & NVH (Noise, Vibration & Harshness)	CAE-Advanced Simulation Process & Solutions, Thermal & Flow Analysis, Motion Analysis, Laminate Composite, Advance Thermal & Flow Analysis, Advanced Finite Element Analysis (FEA), NVH- Vibration Measurements and Analysis, Modal Testing and Analysis, Acoustics Measurements and Analysis, Acoustics NVH Simulation Multi body dynamics.	
3	PLM	Essentials for Designers, Advanced Simulation Process, Basics of RobCAD, TCUA - Using TC, TCUA - Installation, TCUA - Integration for NX users, TCUA- Application & Data Model Administration	
4	Robotics & DM	Process Designers Basic, Process Designers General Assemblies, Tecnomatix - RobCAD, Tecnomatix - Flow, Industrial Robotics Basics-KUKA & Robotics Application - 1) Material Handling, 2) MIG Welding, 3) PLASMA Cutting	
5	Mechatronics Concept Design (MCD)	PLC Programming, Essentials for Designers, MCD, HMI, Mechatronics	
6	CAM & CNC	NX CAM Manufacturing Fundamentals, NX CAM Turning Manufacturing Process, Turning NC Programming, Milling NC Programming, TURNING- Operating and Machining, MILLING- Operating and Machining	
7	Maintenance Repair & Overhaul (MRO)	Welding, Pneumatics, Hydraulics, Pumps, Piping System	
8	Industrial Automation & Mechatronics	PLC Programming, HMI & NETWORKING, Designing SCADA System, Mechatronics	B.Tech-ECE / EEE
9	Process Automation	PLC Programming, HMI & NETWORKING, Designing SCADA System & Process	

		Instrumentation	
10	Mechatronics Concept Design(MCD)	PLC Programming, Essentials for Designers , MCD, HMI & NETWORKING & Mechatronics	
11	Distributed Control System(DCS)	PLC Programming, HMI & NETWORKING, Designing SCADA System, Process Instrumentation & Simatic PCS 7 Basics	
12	Electrical Drives & Switch Gears	AC/DC Drives, Low Voltage Switchgear, Power systems & Induction Motors	B.Tech- EEE

**a. Certificate Courses**

Sl.No	Course Name	Domain	Total Duration (hrs)
1	Essentials for Designers	CAD	40
2	Sketching Fundamentals	CAD	16
3	Synchronous Modelling Fundamentals	CAD	8
4	NX Sheet Metal	CAD	16
5	Drafting Essentials	CAD	24
6	Intermediate Design & Assemblies	CAD	40
7	Advanced Assembly Design	CAD	24
8	Class A Free Form Modelling	CAD	40
9	NX CAM Manufacturing Fundamentals	CAM	32
10	NX CAM Turning Manufacturing Process	CAM	32
11	Engine Design	CAD	35
12	Advanced Simulation- Process	CAE	24
	Advanced Simulation-Solutions	CAE	16
13	TCUA - Using TC	PLM	32
14	TCUA - Installation	PLM	40
15	TCUA - Integration for NX users	PLM	8
16	TCUA- Application & Data Model Administration	PLM	40
17	Tecnomatix – Process		
	Process Designers Basic	DM	24
	Process Designers General Assemblies	DM	16
18	Tecnomatix – RobCAD	DM	
	Robcad Basics		16
	Robcad Advanced Modeling and Kinematics		16

*[Signature]*



*[Signature]*



19	Tecnomatix – Flow	DM	
	Factory CAD		24
	Factory Flow		16
20	Vibration Measurements and Analysis	CAE	20
21	Modal Testing and Analysis	CAE	30
22	Acoustics Measurements and Analysis	CAE	30
23	Acoustics NVH Simulation	CAE	20
24	Advanced Finite Element Analysis (FEA)	CAE	20
25	Multi body dynamics	CAE	30
26	Nesting Productivity Improvement	Nesting	40
27	Turning NC Programming	CNC	32
28	Milling NC Programming	CNC	32
29	840Dsl		
	TURNING- Operating and Machining	CNC	32
	MILLING- Operating and Machining	CNC	32
30	Basics of PLC	Automation	50
31	Basics of HMI & NETWORKING	Automation	40
32	Basics of SCADA	Automation	50
33	Basics of Mechatronics	Mechatronics	50
34	Welding	welding	60
35	Industrial Robotics Basics-KUKA	Robotics	40
36	Robotics Applications		
	Industrial Robot Application(KUKA)-Material Handling	Robotics	40
	Industrial Robot Application(KUKA)-MIG Welding	Robotics	40
	Industrial Robot Application(KUKA)-PLASMA Cutting	Robotics	40
37	Basics of Process Instrumentation	P.I	50
38	SIMATIC PCS 7 Basics	P.I	50
39	Basics of AC/DC Drives	Electrical	40
40	Basics of Low Voltage Switchgear-1	Electrical	40
41	Basics of Power systems	Electrical	40
42	Pneumatics	Pneumatics & Hydraulics	60
43	Hydraulics	Pneumatics & Hydraulics	60



44	Virtual Reality	Virtual Reality	50
45	Pumping System	Pumping	50
46	Piping System	Piping	40
47	Radar systems	Radar	60
48	Laminate Composites	CAD	8
49	Dimensional Accuracy Control	Dimensional Accuracy Control	40
50	Hull Design	CAD	120

### ARTICLE III

#### Courses: Seminars, Workshops, Refresher Courses

It is agreed that NSRIT will arrange periodic seminars, workshops and refresher courses in collaboration with CEMS. The purpose of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of NSRIT as well as those of institutions in the vicinity to discuss on topics of current interest both to NSRIT as well as CEMS. Experts from CEMS as well as faculty from NSRIT with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by NSRIT in keeping with the convenience of experts from CEMS. Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by NSRIT with CEMS by NSRIT at least one month prior to the schedule of the course or workshop.

### ARTICLE IV

#### Cooperative Research

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between NSRIT and CEMS. Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, CEMS will provide necessary support to visiting faculty from NSRIT to study research problems at CEMS. Such problems will be analyzed and solutions suggested by NSRIT.

### ARTICLE V

#### Competence in Consultancy

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. NSRIT has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of materials testing, machinability testing, fabrication of complicated parts, dynamic testing or equipment etc. CEMS will provide necessary assistance and guidance to NSRIT to develop such consultancy capabilities initially by working on challenges faced by CEMS and later extending the expertise gained to other industries.

### ARTICLE VI

#### Support to ASMK

Through all of the above endeavors NSRIT hopes to extend full support to CEMS in meeting the challenges faced by them. Specifically NSRIT shall extend themselves in the following areas



*E. Venkatesh*



Taking up analysis or testing activities as outsourced by CEMS to supply them with necessary designs, results and analysis  
NSRIT will train up students in core competencies required by CEMS so that they can be considered to suitable positions at CEMS during their recruitment drives  
It is hoped that through these activities, NSRIT will be able to extend its facilities and capabilities to CEMS in return for all the technical guidance and support received from them for its development.

#### **ARTICLE VII Exchange of Scientific Materials**

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

#### **ARTICLE VIII Duration of Memorandum of Understanding**

The effective date of this MOU shall be ..... The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. The MOU may be terminated by either CEMS or by NSRIT with notification to the other party six months prior to the effective date of termination.

#### **ARTICLE IX Indemnification**

Centre of Excellence in Maritime & Shipbuilding (CEMS) and NSRIT College of Engineering (NSRIT) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for any and all liability, damages and costs attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

#### **ARTICLE X Liability Insurance**

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

#### **ARTICLE XI Conduct**

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of NSRIT to CEMS.

#### **ARTICLE XII Administration**



The administration of this MOU will be the responsibility of the NSRIT College of Engineering (NSRIT). Dr. Y.Vamsidhar, Principal, NSRIT College of Engineering shall be the primary contact at NSRIT followed by Dr. RP.Das, NSRIT College of Engineering, shall be the secondary contact at NSRIT. Commander S.Gopi Krishna (Retd), (Chief Operating Officer), CEMS, will serve as the primary contact at CEMS.

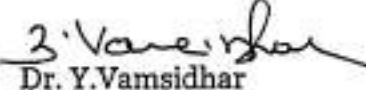
In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

SIGNED:

Centre of Excellence  
In  
Maritime & Shipbuilding

NSRIT College of Engineering

  
Commander S. Gopi Krishna (Retd)  
Chief Operating Officer.  
CEMS.

  
Dr. Y. Vamsidhar  
Principal  
NSRIT College of Engineering

Date 25/9/19

Date 25/9/19

For Centre of Excellence in Maritime & Shipbuilding (CEMS)

Cdr Gopi Krishna Sivvam  
Chief Operating Officer

**Dr. Y. VAMSIDHAR**  
**PRINCIPAL**  
N.S. Raju Institute of Technology  
Sontyam, Anandapuram, VSP 531173





# CHIEF MINISTER'S SKILL EXCELLENCE CENTER



**NSRIT**

## MEMORANDUM OF AGREEMENT (MoA)

BETWEEN

**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**  
AND

**NS Raju Institute Of Technology,  
Sontyam**

Skill Development, Entrepreneurship & Innovation Department  
(SDE&I. Dept.), Government of Andhra Pradesh.





**ANDHRA PRADESH STATE SKILL DEVELOPMENT  
CORPORATION**

**AND**

**NS RAJU INSTITUTE OF TECHNOLOGY  
SONTYAM**





The Agreement is executed on this 21<sup>st</sup> day of July 2019 (Effective Date) by and between,

**Andhra Pradesh State Skill Development Corporation**, having its Corporate Office at D.No.78/2, G&J Infra Infosight Building, Near Pathuru Junction, Tadepalli - 522501 herein referred to as "APSSDC" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by its Authorized Signatory of the first part;

And

**NS RAJU INSTITUTE OF TECHNOLOGY** having its corporate office at Sontyam, Pendurthi-Anandapuram Highway, Visakhapatnam, Andhra Pradesh 531173 herein after called NSRIT, Visakhapatnam (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the **CHAIRMAN** of the second part;

APSSDC and College shall herein after be collectively referred to as Parties and individually as first/second Party.

**WHEREAS:**

APSSDC is a unique organization formed as a public private partnership (PPP) corporation to promote skill-development & entrepreneurship in the state of Andhra Pradesh. APSSDC is the Executive Agency for the Department of Skill Development, Entrepreneurship and Innovation, Govt. of Andhra Pradesh (GoAP) serving the important task of providing high quality skilled manpower as part of the Knowledge and Skills Mission of GoAP. The main objective of the Corporation is to implement a structured and pragmatic solution to skill & upskill the workforce in the State of Andhra Pradesh and to increase employability and promote entrepreneurship in sync with Industrial growth of the State. The process of developing large pool of skilled manpower has been envisaged in partnership with industry to make the skill development mission more industry relevant and self-sustainable. In the process of achieving these goals, the GoAP has



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.

### 13. NOTICE

13.1. Any notice or other document to be given under this Agreement shall be in writing and shall be deemed to have been duly given if left at or sent by:

- (a) hand; or
- (b) registered posts; or
- (c) facsimile or other electronic media;

to the other party at the following addresses and/or telecommunication number or such other addresses as the party may from time to time designate by written notice to the other(s):

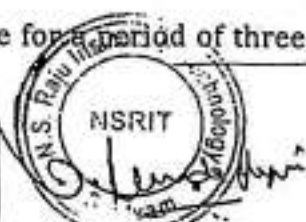
<b>APSSDC</b>	<b>Andhra Pradesh State Skill Development Corporation</b> <b>Door No. 78/2, G&amp;J Infra Infosight Building,</b> <b>Near Pathuru Junction, Tadepalli - 522501</b>
---------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>College/ Institution</b>	<b>NS RAJU INSTITUTE OF TECHNOLOGY</b> <b>Sontyam, Pendurthi-Anandapuram Highway,</b> <b>Visakhapatnam, Andhra Pradesh 531173</b>
---------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------

13.2. All such notices and documents shall be in the English language. All notices or other documents shall be deemed to have been received by the addressee in the case of dispatch by post, five (5) working days following the date of dispatch of the notice or document and in the case of dispatch by hand or by facsimile or other electronic media, simultaneously with the delivery or transmission (as the case may be). To prove the giving of a notice or other document it shall be sufficient to show that it was dispatched in accordance with the provisions of Clause 13.1 hereof.

### 14. PERIOD OF VALIDITY

This Agreement is effective from 14<sup>th</sup> Nov 2018 and shall be in force for a period of three years, unless terminated by mutual consent of the parties.





## 20.ASSIGNMENT

The Second Party shall not be entitled to, nor shall it purport to, assign this Agreement, without prior consent of the First Party.

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 token of agreement and acceptance hereof by the two parties the authorized representatives of the two parties hereto have affixed their signatures herein below in the presence of witnesses as under:

SIGNED ON BEHALF OF

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

Signature: [Signature]

(Name: Dr. B Nageswara Rao)



Designation: Executive Director

NS RAJU INSTITUTE OF TECHNOLOGY,

Sontyam, Pendurthi-Anandapuram Highway, Visakhapatnam, Andhra Pradesh  
531173

Signature: [Signature]

Name: DR. N. PRASADA RAO

SECRETARY



Designation: CHAIRMAN

Witness

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_

Name : \_\_\_\_\_

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_



## Memorandum of Understanding (MoU)

Between

The Department of Computer Science and Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 571 173, Visakhapatnam, Andhra Pradesh



A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named

and

#10-113-30/1, Kishore Layout, Sujatha Nagar, Pendurthi, beside Community Hall, Visakhapatnam,  
Andhra Pradesh 530051, INDIA

A registered company  
Represented by Mr. Ravindar Katkuri  
Chief Technology Officer - in the following "Tilicho Labs" named

The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between both contractual partners.

### General Objectives

The contractual parties agree to collaborate for all academic activities as cited below and training the students of NSRIT for Tilicho Labs pre-boarding identified trainees at NSRIT either through online or offline. A joint collaboration in the area of academics and training among the members of faculty and staff of NSRIT shall be established and grown up jointly, whereas Tilicho Labs will conduct training programs for both, the faculty as well its students.

### Responsibilities of NSRIT

1. NSRIT will induct the identified the SPOCs (maximum of three members) i.e. the representative members from Tilicho Labs, each one in the Board of Studies (BoS) of Computer Science and Engineering (CSE), CSE (Artificial Intelligence and Machine Learning) and CSE (Data Science) as SMEs and accordingly members shall participate in the curriculum enrichment process during the BoS
2. NSRIT shall facilitate the pre-boarding exercise and training for the identified/shortlisted batch of students from second year and third year of study in all the three B. Tech. programs as cited above in Clause #1 with adequate infrastructure facilities with computing facility. Accordingly,

K. Re

12/03/2022



Dr. J. Raja Murugadoss  
Director

N.S. Raju Institute of Technology (N

specified number of hours of training will be provided based on the requirement of the Tilicho Labs within and beyond working hours. And Tilicho Labs can monitor their performance through remote or through the identified SPOC at NSRIT

3. NSRIT will facilitate the agreement signing between the identified/shortlisted students who are appearing for training by Tilicho Labs and ensure their on-boarding exercise after their B. Tech. graduation. In case the students academic performance or training performance is not meeting the requirement fixed by Tilicho Labs, both the contractual parties can collectively take a call on the candidature of the student concerned for the on-boarding process or the day-one employment after their B. Tech. graduation. Based on the relative performance, students shall be given with a grace period depending the prevailing demand and situation
4. NSRIT shall induct Tilicho Labs as a industry partner and promote the brand of Tilicho Labs whenever the Department of CSE organizes any technical events like Codethon, Hackathon in association with the NSRIT Students' Professional Body Chapters viz. ACM and CSI
5. NSRIT shall invite the identified members or any other members for expert talk or any sort of other academic activities like innovative assessment process based on the availability of resources from Tilicho Labs at the time of invite
6. NSRIT may invite the SMEs for offering one credit courses either through online or offline

### Responsibilities of Tilicho Labs

1. Tilicho Labs shall provide all technical support in the academic sphere and render its services in terms of expert talk in the recent technologies or in the areas pertinent to the area of training
2. Tilicho Labs may offer abroad or at India the internship program to faculty and staff at your business locations based on the availability only
3. Tilicho Labs shall depute your representatives to augment our regular delivery in the field of Computer Science and Engineering or allied programs of study with additional inputs based on your availability of resources through online or offline based on the need of the training
4. The representatives of Tilicho Labs from India shall attend Board of Studies of the programs offered by the department of CSE through online for sharing their views
5. Tilicho Labs shall conduct pre-boarding recruitment process at the entry level of third semester or any other preferred choice of the semester for training the identified students and issue conditional job offers with a specified task either to an individual or as a group assignment based on the problem statement with continuous assessment



Mr. Ravindar K  
Tilicho Labs

K. R. [Signature]  
12/03/2022

Dr. J. Raja Murugadoss  
NSRIT

[Signature]

Signed on March 12, 2022 (Saturday)

Director

This MoU is valid for five years from the date of signing as indicated above and it can be further extended based on the agreement of contractual parties

S. Raju Institute of Technology (A  
Sriyam, Visakhapatnam-531173

## **Memorandum of Understanding (MoU)**

**Between**

**The Department of Computer Science and Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 571 173, Visakhapatnam, Andhra Pradesh**



A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named

**and**

**Imaginnovate Techsolutions(India) Pvt.Ltd.**  
D.No. 14-37-17, Gokhale Road  
Maharanipeta  
Visakhapatnam - 530014

A registered company  
Represented by Mrs.Krishnapriya Vattipalli  
of "Imaginnovate Techsolutions (India) Pvt. Ltd."

The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between both contractual partners.

### **General Objectives**

The contractual parties agree to collaborate for all academic activities as cited below and to train the students of NSRIT for Imaginnovate Techsolutions (India) Pvt. Ltd. pre-boarding identified trainees at NSRT either through online or offline. A joint collaboration in the area of academics and training among the members of faculty and staff of NSRIT shall be established and grown up jointly, whereas Imaginnovate Techsolutions India Pvt. Ltd. will conduct training programs for both the faculty as well its students.

### **Responsibilities of NSRIT**

1. NSRIT will induct the identified SPOCs (maximum of three members) i.e. the representative members from Imaginnovate Techsolutions (India) Pvt. Ltd., each one in the Board of Studies (BoS) of Computer Science and Engineering (CSE), CSE (Artificial Intelligence and Machine Learning) and CSE (Data Science) as SMEs and accordingly members shall participate in the curriculum enrichment process during the BoS
2. NSRIT shall facilitate the pre-boarding exercise and training for the identified/shortlisted batch of students from second year and third year of study in all the three B. Tech. programs as cited above in Clause #1 with adequate infrastructure facilities with computing facilities. Accordingly,




a specified number of hours of training will be provided based on the requirement of the Imaginnovate Techsolutions (India) Pvt. Ltd. within and beyond working hours. And Imaginnovate Techsolutions India Pvt. Ltd. can monitor their performance through remote or through the identified SPOC at NSRIT

3. NSRIT will facilitate the agreement signing between the identified/shortlisted students who are appearing for training by Imaginnovate Techsolutions (India) Pvt. Ltd. and ensure their on-boarding exercise after their B. Tech. graduation. In case the students academic performance or training performance is not meeting the requirement fixed by Imaginnovate Techsolutions India Pvt. Ltd., both the contractual parties can collectively take a call on the candidature of the student concerned for the ob-boarding process or the day-one employment after their B. Tech. graduation. Based on the relative performance, students shall be given with a grace period depending the prevailing demand and situation
4. NSRIT shall induct Imaginnovate Techsolutions (India) Pvt. Ltd. as an industry partner and promote the brand of Imaginnovate Techsolutions (India) Pvt. Ltd. whenever the Department of CSE organizes any technical events like Codethon, Hackathon in association with the NSRIT Students' Professional Body Chapters viz. ACM and CSI
5. NSRIT shall invite the identified members or any other members for expert talk or any sort of other academic activities like innovative assessment process based on the availability of resources from Imaginnovate Techsolutions (India) Pvt. Ltd. at the time of invite
6. NSRIT may invite the SMEs for offering one credit courses either through online or offline

#### **Responsibilities of Imaginnovate Techsolutions India Pvt. Ltd.**

1. Imaginnovate Techsolutions (India) Pvt. Ltd. shall provide all technical support in the academic sphere and render its services in terms of expert talk in the recent technologies or in the areas pertinent to the area of training
2. Imaginnovate Techsolutions (India) Pvt. Ltd. may offer abroad or at India the internship program to faculty and staff at your business locations based on the availability only
3. Imaginnovate Techsolutions (India) Pvt. Ltd. shall depute your representatives to augment our regular delivery in the field of Computer Science and Engineering or allied programs of study with additional inputs based on your availability of resources through online or offline based on the need of the training
4. The representatives of Imaginnovate Techsolutions (India) Pvt. Ltd. from India shall attend Board of Studies of the programs offered by the department of CSE through online for sharing their views
5. Imaginnovate Techsolutions (India) Pvt. Ltd. shall conduct pre-boarding recruitment process at the entry level of third semester or any other preferred choice of the semester for training the identified students and issue conditional job offers with a specified task either to an individual or as a group assignment based on the problem statement with continuous assessment

  
Mrs. Krishnapriya Vattipalli  
Imaginnovate Techsolutions India Pvt. Ltd.

  
Dr. J. Raja Murugadoss  
NSRIT  
J. Raja Murugadoss  
Director

Signed on 01st April, 2023. Raju Institute of Technology (A  
Sontyam, Visakhapatnam-531173

This MoU is valid for five years from the date of signing as indicated above and it can be further extended based on the agreement of contractual parties

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100

ONE  
HUNDRED RUPEES

भारत INDIA  
INDIA NON JUDICIAL

ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

K. Laxmi Kumar CZ 915473

to.....34.....Date 03/01/2022 RS.100/-

SMT.K.GOWRI LAXMI

LICENCED STAMP VENDOR

L.no.03-02-001-2018,r.l.no.03-02-017-202

#3-60-5,Near Z.P.High School

Chittivalasa, Sheemill Mandal  
Visakhapatnam DT.PH.9030378978

to...N...Pasad...Raju...s/o - Satyanarayana

Whom...Nadimpalli...Satyanarayana Raju Institute Of Technology, VSP

## Memorandum of Understanding (MoU)

Between

The Department of Computer Science and Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 531 173, Vizag, Andhra Pradesh

A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named

**NSRIT**

and

Buddica Smart Life India Pvt. Ltd., Visakhapatnam



03/01/2022

Page 1/3

K. Laxmi Kumar



A registered company  
Represented by Mr. Devikiran Kasireddy  
Founder & CEO - in the following "Buddica" named  
Address

#49-24-25/A/4, 2nd Floor Suri Plaza, Sankara Matam Rd, opposite to Madhura Inn Hotel,  
Visakhapatnam, Andhra Pradesh 530016

The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between both contractual partners.

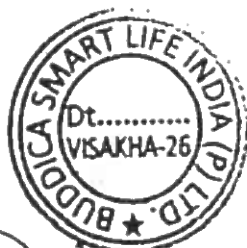
### General Objectives

The contractual parties agree to collaborate for all academic activities as cited below and training the students and faculty of NSRIT either through online or offline. A joint collaboration in the area of academics pertaining to IT Job Market and training the members of faculty and staff of NSRIT shall be established and grown up jointly, whereas Buddica will conduct training programs for both by establishing industry sponsored laboratory under the banner of "Buddica New Age Skill Development", the faculty as well its students.

### Responsibilities of NSRIT

1. NSRIT will induct the identified the SPOC i.e. the representative members from Buddica in the Board of Studies (BoS) of Computer Science and Engineering (CSE), CSE (Artificial Intelligence & Machine Learning) and CSE (Data Science) as a honorary member to share their inputs to enrich the curriculum design and development of the Engineering Programs
2. NSRIT shall extend invite for the SMEs for handling industry driven one credit courses on the latest technologies either through online or offline with specified number of hours on mutual agreement at the Buddica Centre of Excellence, an industry sponsored laboratory at NSRIT campus premises, Sontyam, Visakhapatnam. The number of training hours will be as per the autonomous regulation of NSRIT. Accordingly suitable remuneration will be paid as per the Institutional norms per batch. The batch size may vary between 60 - 80. This can be deployed on B to B model
3. NSRIT shall provide well furnished Infrastructure facilities to accomodate their industry sponsored laboratory
4. NSRIT in association with SMEs of Buddica facilitate the assessment process to wrap up the courses being offered time-to-time
5. NSRIT will allocate day long time duration during 1<sup>st</sup> and 3<sup>rd</sup> Saturday of every month and it may be spread for three to four months in a semester
6. NSRIT may provide working lunch for the trainers in case of offline training during the training period
7. NSRIT shall facilitate a review mechanism once in a month to understand the progress and learning outcomes with the SMEs and others concerned
8. Two to three faculty members will be deputed from NSRIT to accompany the students to effective monitoring from NSRIT
9. NSRIT will facilitate students to undertake IT related courses on the contemporary technologies on payment basis at convenient time on B to C model beyond working hours and it will be like a training hub for outside stakeholders
10. NSRIT shall permit to optimize the use of the sponsored laboratory for Buddica staff between 10:00 AM - 03:00 PM in case if Buddica want to operate their regular routines
11. NSRIT may induct few of the members of Buddica as visiting faculty based on their educational qualification

### Responsibilities of Buddica



*F. Devikiran*



*07/01/2022*

*Page 2*

1. Buddica shall establish industry sponsored laboratory at NSRIT by networking 20 – 30 laptops to run the Buddica New Age Skill Development Centre to provide training to the students and members of faculty on B – B and B –C models
2. Buddica shall identify skilled IT professionals to train the students and faculty either through online or offline based on the approved syllabus and mode of delivery by the contractual parties
3. Buddica shall design the course ranging from surfing to deep skilling for a productive outcome
4. Buddica shall assess the students' outcomes by taking the SPOC of NSRIT to facilitate the assessment process and shall issue a certificate of mastery
5. Buddica may facilitate the following items based on mutual agreement time-to-time
  - a. Internship through our company and also from other Industries
  - b. Guest Lectures from Eminent (SME) persons
  - c. Guidance for Student Projects from Industry Side
  - d. Industry visits will be organized & supported
  - e. Awareness on Society related problems & making solutions from technology
  - f. Capacity Development and Skill Enhancement Activities
    - i. Soft Skills (All CRT Activities)
    - ii. Language & Communication Skills
    - iii. Life Skills (Yoga, Physical Fitness, Health & Hygiene)
    - iv. Awareness Of Trends In Technologies



*f. Devikiran*  
Mr. Devikiran Kasireddy  
Buddica

*Jc 03/01/2022*  
Dr. J. Raja Murugadoss  
NSRIT



Signed on January 03, 2022 (Monday)

This MoU is valid for six years from the date of establishment of Buddica New Age Skill Development Centre as indicated above and it can be further extended based on the agreement of contractual parties

Page 3/3

*f. Devikiran*



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

Sl.No. 63984 Date: 4/10/2021

Sold to: Gopikrishna Sivam s/o Simhachalam. vsp

For whom:

Centre of Excellence In Maritime & Shipbuilding vsp

I. Ravi Shankar  
DA 216969

I. RAVI SHANKAR  
LICENCED STAMP VENDOR

L.No.03/11/12/2011 PL.No.01/11/01/2021  
# 18-26-2A, Kothasali Peta, M R Pe  
Visakhapatnam, Ceir 949264385

CEMS SIEMENS  SIRD

Memorandum of Understanding (MoU)

Between

The Department of Electrical and Electronics Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 531 173, Vizag, Andhra Pradesh

A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named

**NSRIT**

And

Centre of Excellence for Maritime and Ship Building  
(CEMS)

Naval Park, Hindustan Shipyard Colony, Visakhapatnam Andhra Pradesh 530011

A Section 8 Company started by Govt. of India/Ministry of Ports Shipping and Waterways

Represented by Commander. Gopi Krishna Sivam IN (Retd.), COO in the following "CEMS" named

CEMS

In association with

Siemens Industry Software (India) Pvt Ltd, Agrayana Electric  
Technologies and Sarda Metals and Alloys Ltd.









The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between the contractual partners.

#### General Objectives

CEMS is a Section 8 Company started by the Govt. of India/Ministry of Ports Shipping and Waterways/ Sagarmala. CEMS has a strong industry connect having hardware and software provided by industries like Siemens, Kuka, Jansons, Festo, Schneider, various ports and shipyards, Indian Navy, Indian Coast Guard, DRDO etc. The contractual parties agree to collaborate for enhancing the employability skill sets of the students of Electrical and Electronics Engineering (EEE) of NSRIT and nurturing new age skills in the area of Basics of Power Systems, Electrical Vehicle Technologies, Industrial Automation (PLC and Scada), through blended mode of delivery (Online and Offline). A collaboration in the these identified areas training among the students of NSRIT shall be established and grown up jointly, whereas CEMS will conduct training programs in association with the course content and delivery designed by the industry partners as cited above. This initiative is towards Industry - Academia engagement as well as to engage industry SMEs in Curriculum Delivery.

#### Responsibilities of NSRIT

1. NSRIT will induct the identified SPOC from the collaborating contractual parties as industry partners for enhancing the skill set of students at NSRIT
2. NSRIT will induct the identified SPOC as honorary members in the Board of Studies of EEE to share their views on the Curriculum Design and Revision
3. NSRIT will provide a batch of students across all the years of study in Bachelor of Engineering in Electrical and Electronics Engineering (B. Tech. EEE) and the batch size may vary as specified in page 3 of this MoU
4. NSRIT will allocate prescribed number of hours of training per week based on mutual concurrence though offline as well as online for the proposed training
5. NSRIT will initiate the 75% of the payment (As enclosed herewith in Page 3) for every module in a semester within one month of the commencement of the training and upon closure of the training leading to certification and documentation, the rest 25% of the amount shall be released at the end of the semester
6. NSRIT will provide infrastructure facilities for the above said training at NSRIT during the entire training process
7. NSRIT will promote co-branding of the above said collaborators in case of hosting any technical events in association with the Professional Students' Body Chapters being organized by the Department of EEE
8. NSRIT shall raise a requisition note of the training module as proposed in page 3 to CEMS as and when it is needed and inform the SPOC of CEMS well in advance through mail communication



## Responsibilities of CEMS

1. CEMS shall take up the full responsibility of the training as per the syllabus enclosed herewith. The syllabus of the training may be changed in case situation demands based on the industry needs based on mutual agreement
2. CEMS shall either install or provide access through remote to the licensed version of the applications that are essential for the training for the students undergoing training for proposed areas of training as cited above as and when needed
3. CEMS shall take the complete responsibility of the quality of the trainers deployed by the industry collaborators
4. CEMS shall provide training at their Centre of Excellence in Visakhapatnam for practical insight as and when needed whenever they couldn't bring the equipment to NSRIT based on the convenient time of the students without disturbing the regular academic schedule
5. CEMS shall deploy monthly review mechanism to ensure the quality of the training at a prescribed day in the month through online and take necessary feedback from the students for continuous improvement
6. CEMS shall take the responsibility of issuing Joint Certification after the successful completion of the course modules in the above said training areas
7. CEMS shall arrange a generic guest lecture by SMEs from industries once in a month

### Signature of the Collaborating Partners

Commander. Gopi Krishna Srvam  
CEMS

Dr. J. Raja Murugadoss  
NSRIT

Signed on October 04, 2021 (Monday)

This MoU is valid for three years from the date of signing and it can be further extended based on mutual agreement



### Details of the Proposed Course Modules

No.	Semester	Course	Duration (Hours)	Batch Size
1	Sem. III	1. Basics of Power Systems	60 – 80	60 – 120
2	Sem. IV	1. Induction Motors	60 – 80	60 – 120
3	Sem. V	1. Industrial Automation (PLC and SCADA)	60 – 80	60 – 120
4	Sem. VI	2. Electric Vehicle Technologies	60 – 80	60 – 120

(Note: Syllabus Enclosed and Attested)

Course Fee	: Rs. 50,000/- per semester (inclusive of GST)
Batch Size	60 – 120
No. of hours of training	Minimum of 30 hours to a maximum of 80 hour





MEMORANDUM OF  
UNDERSTANDING(MOU)

BETWEEN



DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING

NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF  
TECHNOLOGY (AUTONOMOUS)  
SONTYAM, VISAKHAPATNAM

&



**VIHAAN**  
ELECTRIX  
—◀ VE care for EV ▶—

VISAKHAPATNAM

## MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 27<sup>th</sup> day of - Apr- Two Thousand Twenty-Two (2022),

### BETWEEN

**Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, AP India** - the **First Party** represented herein by its **Dr RAJA MURUGADOSS J - DIRECTOR** (hereinafter referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

### AND

**VElectrix Private Limited., #51-17-6/1, Kranthinagar, Beside Jayabheri Car Showroom, Near Satyam Jn., Resapuvanipalem, Visakhapatnam-530013, the Second Party**, and represented herein by its **CEO, N VENKATA REDDY** (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

### WHEREAS:

- A) First Party is a Higher Educational Institution named: **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, (AP), India**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.

*N. Venkata Reddy*

*Ry.*



- E) - **VElectrix Pvt. Ltd.** -, the Second Party is engaged in Business, Software Consultancy, Skill Development, Education and **R&D Services** in the fields of - *EV technologies and Battery Management System (BMS)*.
- F) - **VElectrix Pvt. Ltd.**, the Second Party is promoted by N. Venkat Reddy, #51-17-6/1, Kranthinagar, Beside Jauabheri Car Showroom, Near Satyam Jn., Resapuvanipalem, Visakhapatnam-530013.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

#### **CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

N. Venkata Reddy -



## CLAUSE 2 SCOPE OF THE MoU

- 2.1 To establish Industry - Sponsored Laboratory for developing products involving in Multidisciplinary approach.
- 2.2 The second party will provide Industry Trainers and few equipment's / electronic components to enable the students for product development.
- 2.3 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.4 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.5 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.6 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.

N. Venkata redely.

R. V. /

- 2.7 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of – **EV technologies and Battery Management System.**
- 2.8 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.9 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.
- 2.10 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.11 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.12 There is no financial commitment on the part of the **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam**, the First Party to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

### **CLAUSE 3 INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

N. Venkatareddy





#### CLAUSE 4 VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, (AP), India** the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **Training Partner** or **VElectrix Pvt. Ltd.**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

#### CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party

 Dr. J. Raja Murugadoss

Director

  
Second Party

N. Venkata Reddy

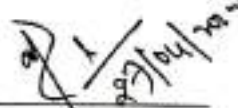
CEO



Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of VISAKHAPATNAM.

**AGREED:**

For  
Nadimpalli Satyanarayana Raju Institute of  
Technology, Visakhapatnam, AP, India.

  
Authorized Signatory  
Dr. J. Raja Murugadoss

For  
Vihaan Electrix.

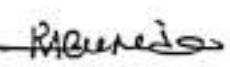
  
Authorized Signatory

Director Nadimpalli Satyanarayana Raju Institute of Technology (A. Sontyam, Visakhapatnam-531173 Visakhapatnam, Ap, India	VIHAAN ELECTRIX
Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam, Ap, India	#51-17-6/1, Kranthinagar, Beside Jayabheri Car Showroom, Near Satyam Jn., Resapuvanipalem, Visakhapatnam-530013, AP, India.
Dr. Raja Murugadoss J - DIRECTOR	N. Venkata Reddy - CEO
E-mail: <a href="mailto:director@nsrit.edu.in">director@nsrit.edu.in</a>	<a href="mailto:vihaanelectrix@gmail.com">vihaanelectrix@gmail.com</a>
<a href="http://www.nsrit.edu.in">http://www.nsrit.edu.in</a>	<a href="https://www.vihaanelectrix.com">https://www.vihaanelectrix.com</a>

Witness1:

  
28/4/22

Witness2:



Witness3:



Witness4:





## Memorandum of Understanding (MoU)

Between

The Department of Electrical and Electronics Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 571 173, Visakhapatnam, Andhra Pradesh



A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named

and

#10-113-30/1, Kishore Layout, Sujatha Nagar, Pendurthi, beside Community Hall, Visakhapatnam,  
Andhra Pradesh 530051, INDIA

A registered company  
Represented by Mr. Ravindar Kalkuri  
Chief Technology Officer - in the following "Tilicho Labs" named

The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between both contractual partners.

### General Objectives

The contractual parties agree to collaborate for all academic activities as cited below and training the students of NSRIT for Tilicho Labs pre-boarding identified trainees at NSRIT either through online or offline. A joint collaboration in the area of academics and training among the members of faculty and staff of NSRIT shall be established and grown up jointly, whereas Tilicho Labs will conduct training programs for both, the faculty as well its students.

### Responsibilities of NSRIT

1. NSRIT will induct the identified the SPOCs (maximum of three members) i.e. the representative members from Tilicho Labs, each one in the Board of Studies (BoS) of Electrical and Electronics Engineering (EEE) as SMEs and accordingly members shall participate in the curriculum enrichment process during the BoS
2. NSRIT shall facilitate the pre-boarding exercise and training for the identified/shortlisted batch of students from second year and third year of study in all the three B Tech. programs as cited above in Clause #1 with adequate infrastructure facilities with computing facility. Accordingly, specified number of hours of training will be provided based on the requirement of the Tilicho

K. Y. S. - 12/05/2022

*[Signature]*

15 April 2022  
Sontyam, Visakhapatnam

*[Signature]*




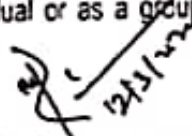
Labs within and beyond working hours. And Tilicho Labs can monitor their performance through remote or through the identified SPOC at NSRIT

3. NSRIT will facilitate the agreement signing between the identified/shortlisted students who are appearing for training by Tilicho Labs and ensure their on-boarding exercise after their B Tech graduation. In case the students academic performance or training performance is not meeting the requirement fixed by Tilicho Labs, both the contractual parties can collectively take a call on the candidature of the student concerned for the on-boarding process or the day-one employment after their B Tech graduation. Based on the relative performance, students shall be given with a grace period depending the prevailing demand and situation
4. NSRIT shall induct Tilicho Labs as a industry partner and promote the brand of Tilicho Labs whenever the Department of EEE organizes any technical events like Codethon, Hackathon in association with the NSRIT Students' Professional Body Chapters viz IETE / IEEE
5. NSRIT shall invite the identified members or any other members for expert talk or any sort of other academic activities like innovative assessment process based on the availability of resources from Tilicho Labs at the time of invite
6. NSRIT may invite the SMEs for offering one credit courses either through online or offline

#### **Responsibilities of Tilicho Labs**

1. Tilicho Labs shall provide all technical support in the academic sphere and render its services in terms of expert talk in the EEE technologies or in the areas pertinent to the area of training
2. Tilicho Labs may offer abroad or at India the internship program to faculty and staff at your business locations based on the availability only
3. Tilicho Labs shall depute your representatives to augment our regular delivery in the field of Electrical and Electronics Engineering or allied programs of study with additional inputs based on your availability of resources through online or offline based on the need of the training
4. The representatives of Tilicho Labs from India shall attend Board of Studies of the programs offered by the department of EEE through online for sharing their views
5. Tilicho Labs shall conduct pre-boarding recruitment process at the entry level of third semester or any other preferred choice of the semester for training the identified students and issue conditional job offers with a specified task either to an individual or as a group assignment based on the problem statement with continuous assessment

  
Mr. Ravindar K  
Tilicho Labs

  
Dr. J. Raja Murugadoss  
NSRIT

**Signed on March 12, 2022 (Saturday)**

**This MoU is valid for five years from the date of signing as indicated above and it can be further extended based on the agreement of contractual parties**





**Luca Industries International**

722 107935097

## **Memorandum of Understanding (MoU)**

**No. nsr210921**

**Between**

**The Department of Civil Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 573 173, Vizag, Andhra Pradesh**

**a higher learning institution approved by AICTE, India  
-represented by its Director, Dr. J. Raja Murugadoss-  
in the following "NSRIT" named**

**NSRIT**

**and**

**Luca Industries International GmbH  
Goerzallee 299  
D-14167, Berlin  
Germany**

**a company registered under the laws of Germany  
- represented by Dr. rer. oec. Marcello H. M. Lucà –  
in the following "LII" named**

**jointly named also as "contractual parties"**

**The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between both contractual partners.**

### **General Objectives**

**The contractual parties agree to jointly establish a Centre of Excellence specialized in the field of Light Wight Concrete and Aerated Concrete at NSRIT Premises. A joint collaboration in the area of academics and research among the members of faculty and staff of NSRIT shall be established and grown up jointly, whereas LII will conduct training programs for both, the faculty as well its students.**



**Luca Industries International GmbH • Goerzallee 299 • D-14167 Berlin • Germany  
Telephone: +49 30 30 457989680 • Telefax: +49 30 30 457989625**

**E-mail: [info@luca-industries.com](mailto:info@luca-industries.com) • Internet: <http://www.luca-industries.com>**

**Managing Director: Dr. rer. oec. Marcello H. M. Lucà • HR 45942 Amtsgericht Berlin Charlottenburg • Ust -Ident -Nr. (VAT): DE-55540776**

**Bankers: Deutsche Bank AG, Unter den Eichen 13-15, 10117 Berlin, Germany**

**Local account no. 2507997 00, Local bank code: 250700; BIC: 454500; IBAN: DE44 2507 0100 0200 7997 00 • SWIFT-BIC: DEUTDE33HAN**







**Responsibilities of NSRIT**

1. NSRIT will extend invite to the members of LII at India, Germany and at other countries where LII has establishment for all academic statutory bodies of NSRIT as a collaborating industry partner. In simple words, the Department of Civil Engineering will treat LII as a collaborating partner for all academic initiatives. It includes
  - a. By default, the India country head will be Inducted in the Board of Studies of Civil Engineering Program under Autonomous Governance of NSRIT
  - b. In all the events being organized at National and International level by the department of Civil Engineering and allied department, during promotion, the brands of LII and NSRIT go together
2. The Department of Civil Engineering shall motivate all students and faculty to gain proficiency by taking the LII expertise in Light Weight Concrete and Aerated Concrete by organizing periodical guest lectures, workshops, and conferences either through online or offline whichever is convenient from both the parties
3. NSRIT will take all the travel costs and other logistics related to for the representatives from India visiting the NSRIT for all the collaborative activities

**Responsibilities of LII**

1. LII shall provide all technical support in the academic sphere and render its services in terms of expert talk in the above said technologies
2. LII may offer abroad or at India the Internship program to faculty and staff at your business locations based on the availability only
3. LII shall depute your representatives to augment our regular delivery in the field of Civil Engineering with additional inputs based on your availability of resources through online
4. The representatives of LII from India shall attend Board of Studies of Civil Engineering Program through online for sharing their views

Luca Industries International GmbH	NSR Institute of Technology
 <p>Luca Industries International GmbH Goerzallee 299 13117 Berlin Tel +49-30-457385680 www.luca-industries.com</p>	 <p>NSRIT</p>
Dr. rer. oec. Marcello H.M. Lucà	Dr. J. Raja Murugadoss
CEO	Director
Date: September 21 <sup>st</sup> , 2021	Date: September 21 <sup>st</sup> , 2021





## **Memorandum of Understanding (MoU)**

Between  
The Department of Civil Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
Sontyam 531 173, Vizag, Andhra Pradesh

A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named



and  
Marutham Group  
Builders and Promoters,  
Chennai 600024

A registered company  
Represented by Dr. S. Jeyachandran  
Vice President - in the following "Marutham Group" named

The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between both contractual partners.

### **General Objectives**

The contractual parties agree to collaborate for all academic activities as cited below and training the students and faculty of NSRIT either through online or offline. A joint collaboration in the area of academics and training among the members of faculty and staff of NSRIT shall be established and grown up jointly, whereas Marutham Group will conduct training programs for both, the faculty as well its students.

### **Responsibilities of NSRIT**

1. NSRIT will induct the identified the SPOC i.e. the representative members from Marutham Group in the Board of Studies (BoS) of Civil Engineering as honorary member to share their inputs to enrich the curriculum design and development of the B. Tech. Civil Engineering program

2. NSRIT will extend invite SMEs for handling industry driven one credit course or regular curriculum delivery either through online or offline with specified number of hours for both the mode of delivery. Accordingly suitable remuneration will be paid as per the Institutional norms
3. NSRIT shall provide infrastructure facility or IT infrastructure for offering the courses as per the requirement and facilitate the assessment process to wrap up the courses being offered
4. NSRIT will induct the representative of Marutham Group as honorary Visiting Professor and the cost pertaining to commute from the office address as cited above to the institute during his visit will be taken care of by NSRIT and on campus accommodation will be provided

#### **Responsibilities of Marutham Group**

1. Marutham Group shall depute Subject Matter Experts (SMEs) to offer Industry Driven One Credit or Two Credit Courses as per the request from NSRIT
2. Marutham Group shall take the responsibility of designing the course, teaching methodology and assessment for the above said courses and handle with through online or offline
3. Marutham Group shall assess the students' outcomes by taking the SPOC of NSRIT to facilitate the assessment process and shall issue a certificate of mastery
4. Marutham Group shall provide internship to the students viz. Summer Internship, Semester Long Internship, Faculty Training based on the availability of the slots at their respective locations of establishment. During the time of such activities, the students shall take care of their domestic issues
5. Marutham Group may look into the option of pre-placement offer based on the vacancy positions if the students' performance is appreciable based on the continuous assessment

Dr. S. Jeyachandran  
Marutham Group



Dr. J. Raja Murugadas  
NSRIT



**Signed on November 06, 2021 (Friday)**

This MoU is valid for five years from the date of signing as indicated above and it can be further extended based on the agreement of contractual parties

Memorandum of Understanding (MoU)

Between

The Department of Mechanical Engineering  
Nadimpalli Salyanarayana Raju Institute of Technology (NSRIT)  
Sonlyam 531 173, Vizag, Andhra Pradesh

A higher learning institution approved by AICTE, India  
Represented by its Director, Dr. J. Raja Murugadoss, NSRIT  
In the following "NSRIT" named

**NSRIT**

And

Axis Global Automation  
#33, Near Mani's Theatre, Kathir Avenue, Aandal Street,  
Lakshmipuram, Coimbatore - 4  
Represented by the Managing Director, Mr. Ezhilmaran,  
in the following "Axis Global Automation" named

**AXIS**  
global automation  
Group of Companies

The purpose of this Memorandum of Understanding (MoU) is to define the intentions of the above-mentioned parties for a future collaboration. The MoU shall be substituted later through a long-term collaboration agreement between the contractual partners.

General Objectives

The contractual parties agree to collaborate for enhancing the employability skill sets of the students of Mechanical Engineering of NSRIT and nurturing the skills sets of the students in the area Industrial Automation through blended mode of delivery (Online and Offline) and practical insight through internship programmes. A collaboration in these identified areas training among the students of NSRIT shall be established and grown up jointly, whereas Axis Global Automation will conduct training programs for the students and faculty. This initiative is towards Industry - Academia engagement as well as to engage industry SMEs in Curriculum Delivery.

Responsibilities of NSRIT

1. NSRIT shall induct the identified technically sound Single Point of Contact (SPOC) of the Axis Global Automation in the Board of Studies of Mechanical Engineering to share their inputs on the Curriculum Design and Revision of autonomous governance

**AGIIT** **AUTOTEC** **EmEx**



NSRIT shall co-brand the Axis Global Automation in case of any technical events being organized by the department of Mechanical Engineering in association with the Professional Students' Body Chapters


3. NSRIT shall depute students pursuing B. Tech. (Mechanical Engineering) for their summer (six weeks) and full semester Internship (Six months) programmes to Axis Global Automation
4. NSRIT may deploy their technical human resources for any sort of collaborative research-oriented projects, or any sort of industrial consultancy based on the availability of the manpower
5. NSRIT may invite SMEs of the Axis Global Industry for handling industry driven one credit courses in their curriculum and shall be paid as per the institutional norms

### Responsibilities of Axis Global Automation

1. Axis Global Automation will depute SMEs for participating in the Board of Studies of Mechanical Engineering based on the invitation from the Chairman (BoS), Mechanical Engineering and the invitation shall be shared well in advance
2. Axis Global Automation will provide SMEs for handling one credit courses or to augment the regular course work in the curriculum either through offline or online based on the availability of the resources
3. Axis Global Automation shall provide internship to the students of NSRIT and based on the availability of positions in the company, pre-placement offers may be extended for deserving students based on the students' performance
4. Axis Global Automation shall act as a industry partner in assisting the department of Mechanical Engineering in the area of Industrial Automation and support the students in enriching the knowledge in the above said field of interest

Signature of the Collaborating Partners

  
Mr. Ezhilmagan  
Axis global Automation

  
Dr. J. Raja Murugadoss  
NSRIT

Signed on October 08, 2021 (Friday)

This MoU is valid for three years from the date of signing and it can be further extended based on mutual agreement

Our Group of Companies

**SAGIT** INDUSTRIAL AUTOMATION

**AUTOTEC** EMEX

Corporate Office: #33, Vaidya Avenue, Andal Street,  
Lal Bahadur Shastri Nagar, Madurai, Tamil Nadu - 625 004

Regional Offices: Chennai | Bangalore | Indhy  
International Offices: Dubai | A. T. T. T.

P: 0472 4270113, E: support@axisglobalautomation.com  
www.axisglobalautomation.com



# CHIEF MINISTER'S SKILL EXCELLENCE CENTER



## NSRIT

### MEMORANDUM OF AGREEMENT (MoA)

BETWEEN

**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**  
AND

**NS Raju Institute Of Technology,  
Sontyam**

Skill Development, Entrepreneurship & Innovation Department  
(SDE&I. Dept.), Government of Andhra Pradesh.



**ANDHRA PRADESH STATE SKILL DEVELOPMENT  
CORPORATION**

**AND**

**NS RAJU INSTITUTE OF TECHNOLOGY**

**SONTYAM**



The Agreement is executed on this 21<sup>st</sup> day of July 2019 (Effective Date) by and between,

**Andhra Pradesh State Skill Development Corporation**, having its Corporate Office at D.No.78/2, G&J Infra Infosight Building, Near Pathuru Junction, Tadepalli - 522501 herein referred to as "APSSDC" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by its Authorized Signatory of the first part;

And

**NS RAJU INSTITUTE OF TECHNOLOGY** having its corporate office at Sontyam, Pendurthi-Anandapuram Highway, Visakhapatnam, Andhra Pradesh 531173 herein after called NSRIT, Visakhapatnam (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the **CHAIRMAN** of the second part;

APSSDC and College shall herein after be collectively referred to as Parties and individually as first/second Party.

**WHEREAS:**

APSSDC is a unique organization formed as a public private partnership (PPP) corporation to promote skill-development & entrepreneurship in the state of Andhra Pradesh. APSSDC is the Executive Agency for the Department of Skill Development, Entrepreneurship and Innovation, Govt. of Andhra Pradesh (GoAP) serving the important task of providing high quality skilled manpower as part of the Knowledge and Skills Mission of GoAP. The main objective of the Corporation is to implement a structured and pragmatic solution to skill & upskill the workforce in the State of Andhra Pradesh and to increase employability and promote entrepreneurship in sync with Industrial growth of the State. The process of developing large pool of skilled manpower has been envisaged in partnership with industry to make the skill development mission more industry relevant and self-sustainable. In the process of achieving these goals, the GoAP has





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.

### 13. NOTICE

13.1. Any notice or other document to be given under this Agreement shall be in writing and shall be deemed to have been duly given if left at or sent by:

- (a) hand; or
- (b) registered posts; or
- (c) facsimile or other electronic media;

to the other party at the following addresses and/or telecommunication number or such other addresses as the party may from time to time designate by written notice to the other(s):

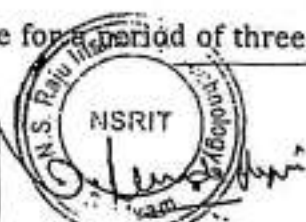
<b>APSSDC</b>	<b>Andhra Pradesh State Skill Development Corporation</b> <b>Door No. 78/2, G&amp;J Infra Infosight Building,</b> <b>Near Pathuru Junction, Tadepalli - 522501</b>
---------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>College/ Institution</b>	<b>NS RAJU INSTITUTE OF TECHNOLOGY</b> <b>Sontyam, Pendurthi-Anandapuram Highway,</b> <b>Visakhapatnam, Andhra Pradesh 531173</b>
---------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------

13.2. All such notices and documents shall be in the English language. All notices or other documents shall be deemed to have been received by the addressee in the case of dispatch by post, five (5) working days following the date of dispatch of the notice or document and in the case of dispatch by hand or by facsimile or other electronic media, simultaneously with the delivery or transmission (as the case may be). To prove the giving of a notice or other document it shall be sufficient to show that it was dispatched in accordance with the provisions of Clause 13.1 hereof.

### 14. PERIOD OF VALIDITY

This Agreement is effective from 14<sup>th</sup> Nov 2018 and shall be in force for a period of three years, unless terminated by mutual consent of the parties.



## 20.ASSIGNMENT

The Second Party shall not be entitled to, nor shall it purport to, assign this Agreement, without prior consent of the First Party.

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 token of agreement and acceptance hereof by the two parties the authorized representatives of the two parties hereto have affixed their signatures herein below in the presence of witnesses as under:

SIGNED ON BEHALF OF

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

Signature: [Signature]

(Name: Dr. B Nageswara Rao)



Designation: Executive Director

NS RAJU INSTITUTE OF TECHNOLOGY,

Sontyam, Pendurthi-Anandapuram Highway, Visakhapatnam, Andhra Pradesh  
531173

Signature: [Signature]

Name: DR. N. PRASADA RAO

SECRETARY



Designation: CHAIRMAN

Witness

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_

Name : \_\_\_\_\_

Signature: \_\_\_\_\_

Designation: \_\_\_\_\_



Estd. 2008



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY



(Approved by AICTE, New Delhi || Affiliated to JNTUK, Kakinada || ISO 9001:2008 Certified Institute)

Recognized under 2(f) of the UGC Act 1956 || Accredited by NAAC with 'A' Grade (3.10/4.00)

B.Tech M.Tech MBA Diploma

web: www.nsr.it.edu.in mail: office@nsr.it.edu.in

## MEMORANDUM OF UNDERSTANDING

Between

**NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY**

Sontyam, Visakhapatnam  
Andhra Pradesh, INDIA

And

**CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING (CEMS)**

Opp.HSL Complex, Gandhi gram, Visakhapatnam - 530 005

### GENERAL Agreement

In order to facilitate industry-institute interaction for technical advancement, to develop academic and industrial relationships and support collaborative research activities, Nadimpalli Satyanarayana Raju Institute of Technology, hereinafter addressed as NSRIT and Centre of Excellence in Maritime & Shipbuilding, hereinafter addressed as CEMS, agree to establish this Memorandum of Understanding (MOU) as a framework for cooperative programs.

### ARTICLE I

#### Faculty Visits and Training

It is agreed that linkages will be strengthened by visit of faculty from NSRIT to CEMS. The purpose of these visits by the faculty is primarily to facilitate the following:

- Training of the faculty by member of CEMS on Design, Advanced Manufacturing and as well as on Automation
- Training and exposure of faculty with focus on Industry 4.0 Skills

Arrangements for each such visit will be made by NSRIT. Purpose, timing and other details concerning these exchanges and short visits in this regard shall be mutually acceptable to both the institutions. It is agreed that information concerning the purpose and duration of the visit by the faculty, the proposed topics of study, details of the personnel visiting and any further details, as required, will be provided to CEMS by NSRIT at least two weeks prior to the proposed visit.

CEMS will be Conducting Orientation Programs to Faculty Free of Cost and Faculty Development Training at 50% cost of the fees charged from Students.





## ARTICLE II

### Student Training

Further to the above, it is also agreed that CEMS will support and facilitate visits of groups of students from NSRIT. The purpose of these visits by the students is as follows:

- \* Industrial visits at II year level to study and understand functioning of an industrial establishment
- \* Industrial visit at III year level to undertake mini-projects and pilot studies for full-fledged projects
- \* Vocational training in design, Advanced Manufacturing and Automation to equip students at III year or IV year levels to acquaint themselves with industry 4.0 procedures and operations so as to prepare themselves to face the challenges of the industrial world upon graduation

As in the case of Article I, arrangements for each such visit will be made by NSRIT in the form of formal letters seeking permission as well as the convenience of CEMS to send the student groups. Purpose, timing and other details concerning these exchanges shall be mutually acceptable to both the institutions. It is agreed that information concerning the number of students visiting, duration of the visit, the proposed topics of study and any further details, as required, will be provided to CEMS by NSRIT at least two weeks prior to the proposed visit. CEMS will charge a Nominal fee of Rs 8000 plus 18% GST for one Month, which includes two Modules of 40 hrs each. Cost of Raw Material required for projects, where applicable will be borne by the Students.

**Center of Excellence in Maritime & Ship Building Visakhapatnam**, has excellent infrastructure and qualified trainers and man power to impart skill training and to offer Diploma and Certificate courses as follows: -

#### Diploma in following courses

Sl No	Course	Modules Covered	Eligibility
1	CAD	Essentials for Designers, Sketching Fundamentals, Synchronous Modelling Fundamentals, NX Sheet Metal, Drafting Essentials, Intermediate Design & Assemblies, Advanced Assembly Design, Class A Free Form Modelling, Engine Design, Laminate Composites	B.Tech-Mechanical
2	CAE & NVH (Noise, Vibration & Harshness)	CAE-Advanced Simulation Process & Solutions, Thermal & Flow Analysis, Motion Analysis, Laminate Composite, Advance Thermal & Flow Analysis, Advanced Finite Element Analysis (FEA), NVH- Vibration Measurements and Analysis, Modal Testing and Analysis, Acoustics Measurements and Analysis, Acoustics NVH Simulation Multi body dynamics.	
3	PLM	Essentials for Designers, Advanced Simulation Process, Basics of RobCAD, TCUA - Using TC, TCUA - Installation, TCUA - Integration for NX users, TCUA- Application & Data Model Administration	
4	Robotics & DM	Process Designers Basic, Process Designers General Assemblies, Tecnomatix - RobCAD, Tecnomatix - Flow, Industrial Robotics Basics-KUKA & Robotics Application - 1) Material Handling, 2) MIG Welding, 3) PLASMA Cutting	
5	Mechatronics Concept Design (MCD)	PLC Programming, Essentials for Designers, MCD, HMI, Mechatronics	
6	CAM & CNC	NX CAM Manufacturing Fundamentals, NX CAM Turning Manufacturing Process, Turning NC Programming, Milling NC Programming, TURNING- Operating and Machining, MILLING- Operating and Machining	
7	Maintenance Repair & Overhaul (MRO)	Welding, Pneumatics, Hydraulics, Pumps, Piping System	
8	Industrial Automation & Mechatronics	PLC Programming, HMI & NETWORKING, Designing SCADA System, Mechatronics	B.Tech-ECE / EEE
9	Process Automation	PLC Programming, HMI & NETWORKING, Designing SCADA System & Process	

*[Signature]*



*[Signature]* Page 2 of 7



		Instrumentation	
10	Mechatronics Concept Design(MCD)	PLC Programming, Essentials for Designers , MCD, HMI & NETWORKING & Mechatronics	
11	Distributed Control System(DCS)	PLC Programming, HMI & NETWORKING, Designing SCADA System, Process Instrumentation & Simatic PCS 7 Basics	
12	Electrical Drives & Switch Gears	AC/DC Drives, Low Voltage Switchgear, Power systems & Induction Motors	B.Tech- EEE

a. Certificate Courses

Sl.No	Course Name	Domain	Total Duration (hrs)
1	Essentials for Designers	CAD	40
2	Sketching Fundamentals	CAD	16
3	Synchronous Modelling Fundamentals	CAD	8
4	NX Sheet Metal	CAD	16
5	Drafting Essentials	CAD	24
6	Intermediate Design & Assemblies	CAD	40
7	Advanced Assembly Design	CAD	24
8	Class A Free Form Modelling	CAD	40
9	NX CAM Manufacturing Fundamentals	CAM	32
10	NX CAM Turning Manufacturing Process	CAM	32
11	Engine Design	CAD	35
12	Advanced Simulation- Process	CAE	24
	Advanced Simulation-Solutions	CAE	16
13	TCUA - Using TC	PLM	32
14	TCUA - Installation	PLM	40
15	TCUA - Integration for NX users	PLM	8
16	TCUA- Application & Data Model Administration	PLM	40
17	Tecnomatix – Process		
	Process Designers Basic	DM	24
	Process Designers General Assemblies	DM	16
18	Tecnomatix – RobCAD	DM	
	Robcad Basics		16
	Robcad Advanced Modeling and Kinematics		16

*[Signature]*



*[Signature]*

19	Tecnomatix – Flow	DM	
	Factory CAD		24
	Factory Flow		16
20	Vibration Measurements and Analysis	CAE	20
21	Modal Testing and Analysis	CAE	30
22	Acoustics Measurements and Analysis	CAE	30
23	Acoustics NVH Simulation	CAE	20
24	Advanced Finite Element Analysis (FEA)	CAE	20
25	Multi body dynamics	CAE	30
26	Nesting Productivity Improvement	Nesting	40
27	Turning NC Programming	CNC	32
28	Milling NC Programming	CNC	32
29	840Dsl		
	TURNING- Operating and Machining	CNC	32
	MILLING- Operating and Machining	CNC	32
30	Basics of PLC	Automation	50
31	Basics of HMI & NETWORKING	Automation	40
32	Basics of SCADA	Automation	50
33	Basics of Mechatronics	Mechatronics	50
34	Welding	welding	60
35	Industrial Robotics Basics-KUKA	Robotics	40
36	Robotics Applications		
	Industrial Robot Application(KUKA)-Material Handling	Robotics	40
	Industrial Robot Application(KUKA)-MIG Welding	Robotics	40
	Industrial Robot Application(KUKA)-PLASMA Cutting	Robotics	40
37	Basics of Process Instrumentation	P.I	50
38	SIMATIC PCS 7 Basics	P.I	50
39	Basics of AC/DC Drives	Electrical	40
40	Basics of Low Voltage Switchgear-1	Electrical	40
41	Basics of Power systems	Electrical	40
42	Pneumatics	Pneumatics & Hydraulics	60
43	Hydraulics	Pneumatics & Hydraulics	60





44	Virtual Reality	Virtual Reality	50
45	Pumping System	Pumping	50
46	Piping System	Piping	40
47	Radar systems	Radar	60
48	Laminate Composites	CAD	8
49	Dimensional Accuracy Control	Dimensional Accuracy Control	40
50	Hull Design	CAD	120

### ARTICLE III

#### Courses: Seminars, Workshops, Refresher Courses

It is agreed that NSRIT will arrange periodic seminars, workshops and refresher courses in collaboration with CEMS. The purpose of these courses is to facilitate and maintain on-going Industry-Institute Interaction as well as provide a forum for faculty of NSRIT as well as those of institutions in the vicinity to discuss on topics of current interest both to NSRIT as well as CEMS. Experts from CEMS as well as faculty from NSRIT with significant exposure in the topic of interest will coordinate and conduct these courses.

Arrangements for such courses will be made by NSRIT in keeping with the convenience of experts from CEMS. Purpose, timing and other details concerning these courses shall be mutually acceptable to both the institutions. It is agreed that information concerning the duration of the visit, the proposed topics of the course and any further details, as required, will be mutually discussed by NSRIT with CEMS by NSRIT at least one month prior to the schedule of the course or workshop.

### ARTICLE IV

#### Cooperative Research

It is anticipated that significant opportunities, of which a few have been identified, exist for cooperative research between NSRIT and CEMS. Such clearly beneficial activities may require specific arrangements. In view of the importance of cooperative research, CEMS will provide necessary support to visiting faculty from NSRIT to study research problems at CEMS. Such problems will be analyzed and solutions suggested by NSRIT.

### ARTICLE V

#### Competence in Consultancy

It is also anticipated that significant opportunities exist for taking up consultancy works with industries. NSRIT has state-of-the-art equipment ideally suited to taking up consultancy work for industries in the area of materials testing, machinability testing, fabrication of complicated parts, dynamic testing or equipment etc. CEMS will provide necessary assistance and guidance to NSRIT to develop such consultancy capabilities initially by working on challenges faced by CEMS and later extending the expertise gained to other industries.

### ARTICLE VI

#### Support to ASMK

Through all of the above endeavors NSRIT hopes to extend full support to CEMS in meeting the challenges faced by them. Specifically NSRIT shall extend themselves in the following areas



*E. Venkatesh*

Taking up analysis or testing activities as outsourced by CEMS to supply them with necessary designs, results and analysis  
NSRIT will train up students in core competencies required by CEMS so that they can be considered to suitable positions at CEMS during their recruitment drives  
It is hoped that through these activities, NSRIT will be able to extend its facilities and capabilities to CEMS in return for all the technical guidance and support received from them for its development.

#### **ARTICLE VII Exchange of Scientific Materials**

Both the collaborating parties agree to exchange as widely as is practicable such items as scientific publications and journals, university calendars, prospectuses, text books, course outlines and reference materials that may be necessary and of use to either party.

#### **ARTICLE VIII Duration of Memorandum of Understanding**

The effective date of this MOU shall be ..... The MOU shall extend for a period of 3 (Three) years and may be renewed upon mutual written agreement. The MOU may be modified by mutual written agreement. The MOU may be terminated by either CEMS or by NSRIT with notification to the other party six months prior to the effective date of termination.

#### **ARTICLE IX Indemnification**

Centre of Excellence in Maritime & Shipbuilding (CEMS) and NSRIT College of Engineering (NSRIT) shall each indemnify and hold harmless the other, its faculty/officers, agents and employees, for any and all liability, damages and costs attributable to the negligent acts or omissions of the indemnifying party, its faculty/officers, agents and employees while acting in the scope of their employment and in furtherance of activities described in this Memorandum of Understanding.

#### **ARTICLE X Liability Insurance**

Each party shall maintain its own insurance in amounts deemed appropriate for its operations. Such insurance shall provide coverage for negligent acts, errors, or omissions and provide protection against bodily injury or property damage claims. It is expressly understood that each party shall be solely responsible for its own actions and such insurance shall not extend to protect any other party.

#### **ARTICLE XI Conduct**

Each party shall abide by the rules and regulations of the host institution especially in regard to visits by the faculty/students of NSRIT to CEMS.

#### **ARTICLE XII Administration**





The administration of this MOU will be the responsibility of the NSRIT College of Engineering (NSRIT). Dr. Y.Vamsidhar, Principal, NSRIT College of Engineering shall be the primary contact at NSRIT followed by Dr. RP.Das, NSRIT College of Engineering, shall be the secondary contact at NSRIT. Commander S.Gopi Krishna (Retd), (Chief Operating Officer), CEMS, will serve as the primary contact at CEMS.

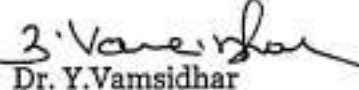
In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

SIGNED:

Centre of Excellence  
In  
Maritime & Shipbuilding

NSRIT College of Engineering

  
Commander S. Gopi Krishna (Retd)  
Chief Operating Officer.  
CEMS.

  
Dr. Y. Vamsidhar  
Principal  
NSRIT College of Engineering

Date 25/9/19

Date 25/9/19

For Centre of Excellence in Maritime & Shipbuilding (CEMS)

Cdr Gopi Krishna Sivvam  
Chief Operating Officer

**Dr. Y. VAMSIDHAR**  
PRINCIPAL  
N.S. Raju Institute of Technology  
Sontyam, Anandapuram, VSP 531173





# Company Profile

Corporate Profile

## Organisation Reference ID

CORPORATE6128f6a10f28c1630074529

## First name

Veera

## Middle name

last name

## Last name

Sappagaddi

## Mobile Number

8520035963

## Organisation Name

## MEMORANDUM OF UNDERSTANDING

between

Nadimpalli Sanyasrayana Raju Institute of Technology (NSRIT)  
and  
ecGEMS - GC German Center for Engineering and Management Studies UG Aachen  
and  
European Center for Mechatronics APS GmbH Aachen

This Memorandum of Understanding ("MOU") is executed on the 15<sup>th</sup> day of February 2019, between:

Nadimpalli Sanyasrayana Raju Institute of Technology (NSRIT) having its principal address at Sanyam, Anandapuram Mandal, Visakhapatnam, AP, India. (hereinafter referred to as "INDIAN UNIVERSITY", which expression shall unless repugnant to the meaning thereof, mean and include its successors and permitted assigns) of the FIRST PART.

AND

GC German Center for Engineering and Management Studies, having its principal address at Kapuzinergraben 38, Aachen 52062 Germany (hereinafter referred to as "GEMS", which expression shall unless repugnant to the meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART.

AND

European Center for Mechatronics APS GmbH Aachen, having its principal address at Vahnernstrasse 460, 52072 Aachen, Germany (hereinafter referred to as "APS", which expression shall unless repugnant to the meaning thereof, mean and include its successors and permitted assigns) of the THIRD PART.

APS and GEMS collectively referred as European Center for Mechatronics and Manufacturing (hereinafter referred to as "ECMM", which expression shall unless repugnant to the meaning thereof, mean and include its successors and permitted assigns)

INDIAN UNIVERSITY and ECMM are individually referred to as "Party" and collectively as the "Parties".

### WHEREAS:

- A. INDIAN UNIVERSITY is conducting academic courses (B.Tech, M.Sc., MBA and PhD) to students and management courses to professionals in reputed institutions, organizations and individuals in order to train management skills.

- B. GEMS is supporting international research, trainings and academic programs between Germany and India
- C. APS is actively supporting conceptual research, industrial research and academic programs in Germany and globally.
- D. INDIAN UNIVERSITY, GEMS and APS intend to collaborate by entering into an MOU agreement establishing the "European Center for Mechatronics and Manufacturing" in its academic research part as "Advanced Robotics Labs at Academia": here in after mentioned as "ARC".

In pursuance of the afore said, the Parties hereto wish to record under this MOU, the terms of mutual understanding in order to establish a framework for initiating innovative models of technology based and cutting edge technical education.

NOW THE PARTIES HERETO AGREE AS UNDER:

#### ARTICLE 1: SCOPE OF THE MOU

1.1 The objective of this MOU is to set out the scope within which INDIAN UNIVERSITY, GEMS and APS will jointly explore and work towards achieving the objectives and matters specified in this MOU. Each Party shall have the right, in its sole discretion, to determine how it will fulfill its obligations hereunder.

- ECMM is co-funding the INDIAN UNIVERSITY for establishing the ARC lab and sponsoring trainings along with industry partners and government partners.
- ECMM is providing knowledge transfer, training and industrial connect.
- ECMM is executing the faculty training and student training in cooperation with INDIAN UNIVERSITY and Andhra Pradesh Skill Development Corporation (APSSDC)
- ECMM will be providing the course content and execution plan in consultation with APSSDC.
- INDIAN UNIVERSITY is a partner to be part of establishing the Indo-European center for Mechatronics and Manufacturing
- INDIAN UNIVERSITY to be resource partner in India for ECMM for mutually agreed programs by providing two faculties for this process of ARC labs
- INDIAN UNIVERSITY is assigning the minimum 2 faculties for executing this project in India.
- INDIAN UNIVERSITY will be mobilizing the students and organizing the infrastructure recommended by the ECMM and APSSDC.
- Conduct Mechatronics and Manufacturing courses and lab work
- Exchange of researchers and students
- To apply and manage international research projects with Indian and German companies/organizations.
- Establish of a common research location/ representation for transnational research projects between German and Indian partners in Andhra Pradesh



- Collaborate for dissemination of knowledge on cutting edge technologies to faculty and research programs
- GEMS will be the organizing body for the process of this cooperation activity

1.2 If INDIAN UNIVERSITY, GEMS and APS mutually agree to pursue any specific objectives and undertakings, the terms and conditions for pursuing such objectives shall be documented on a case-to-case basis.

#### ARTICLE 2: ADVISORY GROUP

2.1 An "advisory board" is proposed in order to keep up with the rapidly changing trends in technology and academic requirements and to review the working and progress of the collaboration activities.

2.2 The board consists of one member from INDIAN UNIVERSITY, GEMS and APS and accomplished academic & industry representatives.

2.3 INDIAN UNIVERSITY, GEMS and APS can recommend the names of such representatives.

2.4 This board will meet on if needed at a mutually agreed location and will also discuss more frequently through email/electronic media as required to address the aspects related to the collaboration. Meeting are also possible with online conferences.

#### ARTICLE 3: COMMERCIAL TERMS

3.1 There are two commercial aspects involved in process of establishing the Advanced Robotic Control Lab and skill development process through training of students and faculty.

The process of lab establishment at the INDIAN UNIVERSITY funded 66.66 % by INDIAN UNIVERSITY AND 33.33% by GEMS and APS ECM.

- INDIAN UNIVERSITY need to pay the 25% of their part of the payment prior to the MOU signing and remaining amount need be processed within 15 working days after the MOU signing.

Skill development aspect: Student training fund will be allocated as 45% by APSSDC (Andhra Pradesh Skill Development Corporation), 45% by ECM and 10% by student. Payment process terms with APSSDC defined in a separate agreement between APSSDC, APS ECM and Indian University.

With respect to the travel, accommodation and any other related expenses of the Indo-German faculties and students will be taken care by respective parties.

#### ARTICLE 4: CONFIDENTIALITY

**Confidentiality** - It is envisaged that the Parties or any members of their respective Groups or their respective Agents may from time to time disclose Confidential Information to the other. In consideration of such Confidential Information being made available to all parties, the first party, the second party and the third party agree that any disclosure or dealings between the Parties will be subject to the terms and conditions of this Agreement. All Parties will treat and keep all Confidential Information confidential and without the Disclosing Party's prior written consent, directly or indirectly communicate or disclose (whether in writing or orally or in any other manner) Confidential Information to any other person other than in accordance with the terms of this Agreement (for the avoidance of doubt, this Agreement prohibits discussing the same with any Disclosing Party Group employees other than those in connection with the Project).

- Nothing in this Agreement will constitute the creation of a partnership, joint venture or agency between the parties.
- **Intellectual Property and Trademarks** - Both the parties will continue to own their respective trademarks including that of any improvements or work done at its place for this AGREEMENT.

#### ARTICLE 5: ANNOUNCEMENT

From the date of signature, all parties can announce the existence of this MoU. All the parties shall submit the MoU for any regulatory or Government related purposes.

All parties can announce about the MoU on its website of ECMM and INDIAN UNIVERSITY and mention the others as resource partner on its Masters and Research Programs conducted with the help of Industry Partners.

#### ARTICLE 6: TERM AND TERMINATION

This AGREEMENT will come into effect on the date of signature and will remain in force for three years until either of the two parties serves a written notice to the other at their addresses mentioned as above by registered post of its intention to terminate the Agreement in which case it will terminate one month after the receipt of such a notification. The agreement can be renewed on mutually agreed terms and conditions.

Notwithstanding anything in this MoU, neither Party shall be liable to the other for any failure to achieve any of the objectives and undertakings herein.

However, commitments made by either party in respect of personnel hired, equipment ordered for any industry research project under this MoU would be honored by respective parties.

## ARTICLE 7: MODIFICATIONS

Agreement may be amended by mutual consent through an exchange of correspondence between the two Parties.

Amendments come into existence only by a written agreement duly signed by persons authorized on behalf of each party.

Satyanarayana Raju Institute of Technology (NSRIT)

*[Signature]*  
Satyanarayana Raju  
NSRIT  
02-2019



Venkata Nagaraju

*[Signature]*  
President - GC German Center for Engineering and Management Studies  
Indian Affairs - European Center for Mechatronics APS GmbH

02-2019

02-2019

Dr. Ing. T. H. H. H.

Managing Director - European Center for Mechatronics APS GmbH

02-2019

02-2019

Dr. Ing. Christoph Greb

Managing Director - European Center for Mechatronics APS GmbH

02-2019

*[Signature]*



APS GmbH  
Europäisches Zentrum  
für Mechatronik  
Völkner Straße 480  
52074 Aachen (Germany)

*[Signature]*



APS GmbH  
Europäisches Zentrum  
für Mechatronik  
Völkner Straße 480  
52074 Aachen (Germany)





PEOPLE FIRST

ANDHRA PRADESH  
India's Sunrise State



GRANT FUNDED  
BY GOVERNMENT OF  
INDIA

APR



# AR

APPLIED

ROBOT

APSSDC - ECM Convergence Training Centers  
Indo-European Skilling Centers  
for Mechatronics and Industrial Robotics.  
Under the project of establishment of European Center  
for Mechatronics and Manufacturing, AP, India.

EXECUTION AND INDUSTRY PARTNERS



Steinbeis  
National  
Institute  
Duisburg

SGIT

Steinbeis  
University  
Berlin  
SHB

IGUS

ITA

PANTHACHEL  
UNIVERSITY

EDB