

**Luca Industries International**  
Inc. Technology

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

**No. nsr210921**

**Between**

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

**a higher learning institution approved by AICTE, India  
- represented by its Director, Dr. J. Raja Murugadas -  
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 Weight 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 (0)30 457381630 • Telefax: +49 (0)30 457381639  
Email: info@lucaindustries.com • Internet: <http://www.luca-industries.com>  
Managing Director: Dr. rer. oec. Marcello H. M. Lucà • HR 45942 Ammerkeim Berlin • Charleruaung • Ust-Adm.-Nr. (VAT): DE155530778  
Bank: Deutsche Bank AG, Unter den Eichen 10-11, 10117 Berlin, Germany.  
Vat. Assumt. no. 259795700, Local bank code: 100 701 00 • ISAN: DE55 1007 0100 0250 7597 00 • SWIFT-BIC: DEUTDE33HAN




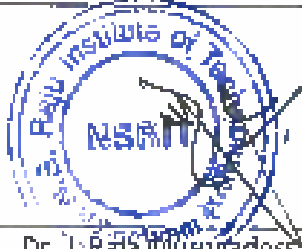


### Responsibilities of NSRIT

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
	
Dr. ren.occ. 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

**NSRIT**

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 carous accomodation 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 Murugesan  
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 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,

Dr. J. Raja Murugadoss  
Director

N.S. Raju Institute of Technology







## **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  
Maharaniipeta  
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 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 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  
  
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  
CZ 915473

SMT.K.GOWRI LAXMI  
LICENCED STAMP VENDOR  
Lno.03-02-001-2018, r.l.no.03-02-017-202  
#3-EO-5, Near Z.P. High School  
Chittivalasa, Sheemill Mandal  
Visakhapatnam DT. PH.9030378978

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

to... N. Prasad... 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

*[Signature]*

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 2/2*

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 7/13

*f. Devikiran*



# 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;

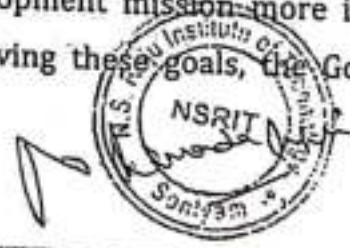
And

**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):

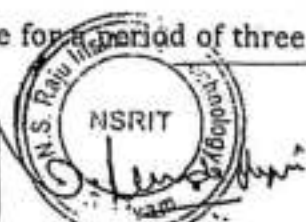
<b>APSSDC</b>	<b>Andhra Pradesh State Skill Development Corporation</b> <b>Door No. 78/2, G&amp;J Infra Infosight Building,</b> <b>Near Pathuru Junction, Tadepalli - 522501</b>
---------------	--

<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](http://www.nsr.it.edu.in) mail: [office@nsr.it.edu.in](mailto: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		
45	Pumping System	Virtual Reality	50
46	Piping System	Pumping	50
47	Radar systems	Piping	40
48	Laminate Composites	Radar	60
49	Dimensional Accuracy Control	CAD	8
50	Hull Design	Dimensional Accuracy Control	40
		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. V. 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.

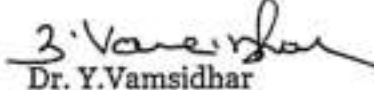
In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

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(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, Rajashiekar 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 Securitles 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 Murugadas, DIRECTOR	Dinesh Kumar Grewal - CEO
E-mail: director@nrsit.edu.in	Info@hmiengineers.com
N.S. Raju Institute of Technology (A) Satyanarayana Raju Institute of Technology	https://www.hmies.org

Witness1:

Witness2:

Witness3:

Witness4:

#### 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)  
Soniyaam, Visakhapatnam-531173

Second Party

Dinesh Kumar Prasad  
CEO



# MEMORANDUM OF AGREEMENT

BETWEEN



**NATIONAL RESEARCH DEVELOPMENT CORPORATION**  
(An Enterprise of DSIR, Ministry of Science & Technology, Govt. of India)  
**20-22, ZAMROODPUR COMUNITY CENTRE**  
**KAILASH COLONY EXTENSION, NEW DELHI 110048**

AND



**NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY**

Sontyam, Pendurthi- Anandapuram Highway, Visakhapatnam - 531173,

Andhra Pradesh ,

APRIL 2019







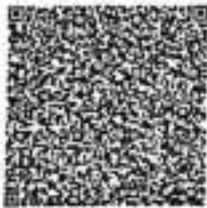
सत्यमेव जयते

# INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

## e-Stamp

Certificate No. : IN-DL76699631536749R  
 Certificate Issued Date : 20-Apr-2019 12:42 PM  
 Account Reference : IMPACC (IV) dl857503/ DELHI/ DL-DLH  
 Unique Doc. Reference : SUBIN-DL85750358535599475078R  
 Purchased by : NATIONAL RESEARCH DEVELOPMENT CORPORATION  
 Description of Document : Article 5 General Agreement  
 Property Description : Not Applicable  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : NATIONAL RESEARCH DEVELOPMENT CORPORATION  
 Second Party : Not Applicable  
 Stamp Duty Paid By : NATIONAL RESEARCH DEVELOPMENT CORPORATION  
 Stamp Duty Amount(Rs.) : 50  
 (Fifty only)



Please write or type below this line

## MEMORANDUM OF AGREEMENT

BETWEEN

**NATIONAL RESEARCH DEVELOPMENT CORPORATION**

(An Enterprise of DSIR, Ministry of Science & Technology, Govt. of India)

20-22, ZAMROODPUR COMUNITY CENTRE

KAILASH COLONY EXTENSION, NEW DELHI 110048

AND

**NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY**

Sontyam, Pendurthi- Anandapuram Highway,

Visakhapatnam - 531173, Andhra Pradesh.





## MEMORANDUM OF AGREEMENT

This Memorandum of Agreement (MOA) is entered into this \_\_\_\_\_ day of April, 2019.

### BETWEEN

National Research Development Corporation, an Enterprise of Department of Scientific & Industrial Research, Ministry of Science & Technology, Govt. of India, dealing within the meaning of and registered under the Companies Act, 1956, having its Registered Office at 'Anusandhan Vikas', 20-22, Zamroodpur Community Centre, Kailash Colony Extension, New Delhi-110 048 (hereinafter called 'NRDC' which expression shall include its successors in interest/business and permitted assigns) of the One part;

### AND

Nadimpalli Satyanaryana Raju Institute of Technology (formerly Known as VITS College of Engineering) established in the year 2008 by Sree Veera Venkata Satyanarayana Educational Society and recognized as "A" Grade Institute by Govt of Andhra Pradesh, located at Sontyam, Pendurthi- Anandapuram High, Visakhapatnam, A.P. (hereinafter called "NSRIT" which expression shall include its successors in interest/business and permitted assigns) of the Other part.

WHEREAS 'NRDC' is a company established by the Government of India with the objectives, inter-alia of promotion, development, licensing and commercial exploitation of indigenous technology, know-how and inventions, including the technical and engineering know-how generated by various publicly funded R&D laboratories, universities and institutions. Since its inception, 'NRDC' has already transferred to industry and successfully commercialized a large number of technologies both in India and abroad.

WHEREAS, 'NSRIT' has received National Level Best CSI Student Branch award from Computer Society of India. NSRIT has a strong Entrepreneurship Development Cell (EDC) to enhance Industry Relations & Placement Department and has been consistent in achieving 100% Placements for registered eligible students. NSRIT has R&D Cell for exposing to latest developments and create spectrum of contemporary technologies to faculties and students. NSRIT has Innovative Clubs to encourage the student's creativity like Technology forums & hobby clubs for students. Startup Bootcamp at NSRIT which would function as an Idea Clinic mini incubator.

WHEREAS 'NSRIT' and 'NRDC' recognize the respective strengths of the two organizations and accordingly agree to cooperate in the development of technologies and their successful transfer to industry for commercial exploitation and socio-economic benefits.

Now therefore, in consideration of the premises and mutual covenants hereinafter contained, the parties hereto agree as follow:

1. Subject to the conditions hereinafter contained 'NSRIT' agrees to assign its technologies/Know-hows(s) to 'NRDC' free from encumbrances and developed by "NSRIT" for sole and absolute right of marketing and licensing for commercial exploitation by 'NRDC'.



*[Handwritten signature]*





## 18. ARBITRATION AND JURISDICTION

- A. (i) If any dispute or difference arises between the parties hereto as to the construction, interpretation, effect and implication of any provision of this MOA including the rights or liabilities or any claim or demand of any party against other or in regard to any other matter under these presents but excluding any matters, decisions or determination of which is expressly provided for in this MOA, such disputes or differences shall be settled under the Rules of Delhi International Arbitration Center, New Delhi by Sole Arbitrator to be appointed out of the panel of arbitrators of Delhi International Arbitration Center (DAC) with the consent of all the parties failing which the aggrieved party shall approach to the court of competent jurisdiction for the appointment of the Sole Arbitrator in accordance with the Arbitration and Conciliation Act, 1996 (As amended/modified from time to time) and Rules framed thereunder for the time being in force (the Act) and the reference to arbitration shall be deemed to be submission within the meaning of the Act.
- (ii) If however, any party does not make any claim or demand or raise any dispute or difference against the Other parties in terms of this clause within one year from the date on which such claim or demand arises, then it shall be deemed that the parties have waived and abandoned such claim or demand or the right to raise such dispute or difference against the other parties..
- (iii) (a) The venue of the Arbitration shall be at Delhi International Arbitration Center at New Delhi..
- (b) Each party shall bear and pay its own cost of the arbitration proceedings unless the Arbitrator otherwise decides in the Award.
- (c) The provisions of this Clause shall not be frustrated, abrogated or become inoperative, notwithstanding this MOA expires or ceases to exist or is terminated or revoked or declared unlawful.
- B. The High Court of Delhi at New Delhi and Courts subordinate to it shall have exclusive jurisdiction in all matters concerning this MOA, including any matter arising out of the Arbitration Proceedings or any Award made therein.
19. This MOA is valid initially for five years from the date of signing but may be extended for further periods by mutual agreement in writing between the parties.

## 20. Copyright and Intellectual Property

Means all proprietary inventions, processes, product designs, know-how or any other intellectual property of a Party or any other third party which is associated with such Party in development of any products and any other materials/application in any media



IN WITNESS WHEREOF, both the parties herein set their respective hands and seals on the day, month and year first above written in the presence of following witnesses.

For and on behalf of  
National Research Development  
Corporation, New Delhi



(Dr. H Purushotham)  
Chairman & Managing Director


Dr. H. Purushotham  
Chairman and Managing Director  
National Research Development Corporation  
(An Enterprise of Department of Scientific &  
Industrial Research, Ministry of Science &  
Technology, Govt. of India)  
New Delhi-110048

Witnesses:

1. Signature:

Name:

Address:

  
B. S. Sahu  
NRDC - IPDC BTICL  
VIZAG

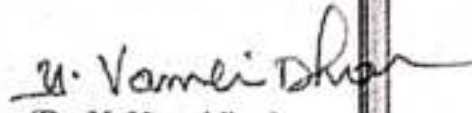
2. Signature:

Name:

Address:

P. B. Manjappa  
NRDC - IPDC - VIZAG

For and on behalf of  
Nadimpalli Satyanarayana Raju Institute of  
Technology, Visakhapatnam, Andhra Pradesh



(Dr. Y. Vamsidhar)  
Principal

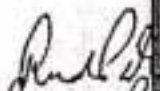
**Dr. Y. VAMSIDHAR**  
**PRINCIPAL**  
N.S. Raju Institute of Technology  
Sontyarn, Anandapuram, VSP 531173

Witnesses:

1. Signature:

Name:


Address:

  
R. V. S. Srinivas  
Visakhapatnam

2. Signature:

Name:

Address:

  
N. Sai Varma  
Correspondent  
NSRIT, VSP



# **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 MURUGADOSS] -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, Pulagallpalem, 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.
- 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 SecondParty.
- 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 Sudhakar*





- 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.
- 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 Haju 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 Venkata Suddhy*

*[Signature]*

#### 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  
Sole Proprietorship) - 531173 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 28/4/22

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:

**Ganap**  
28/4/22.

Witness3:

**putte**

Witness2:

**Ragunath**  
28/4/22.

Witness4:

**Pran**  
28/4/22

**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 Murugadas, DIRECTOR	Dinesh Kumar Handwat - CEO
E-mail: director@nrit.edu.in	Info.hmi@hmi.com
N.S. Raju Institute of Technology (A, GATEWAY TO VISAKHAPATNAM)	https://www.hmies.org

Witness1:

Witness3:

Witness2:

Witness4:



#### 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 Pravat  
CEO



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

SI.No. 63988 Date: 4/10/2021

Sold to: Gopi Krishna Sivam s/o Simhachalam vsp

For whom:

Centre of Excellence In Maritime & Shipbuilding vsp

I. Ravi Shankar  
DA 216969

LICENCED STAMP VENDOR

LN. 03/11/2011 PL. No. 01-11/01/2021  
# 18-36-2A, 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/ Sagamala. 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





A handwritten signature is written in the bottom right corner, with the number '2' written below it.

### 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 Sivvam  
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. Electrics 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.



- 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

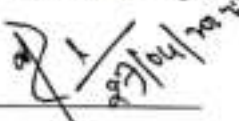
N. Venkata Reddy

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.

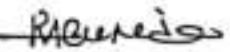
  
Authorized Signatory

Director Nadimpalli Satyanarayana Raju Institute of Technology (A), Soniyam, 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>

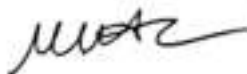
Witness1:

  
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

15 April 2022  
Santosh Kumar

15 April 2022  
Santosh Kumar






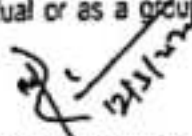
Labs within and beyond working hours. And Tilicho Labs can monitor their performance through remote or through the identified SPOC at NSRIT

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





# 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;

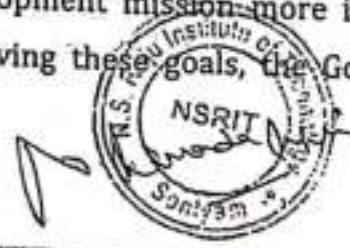
And

**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):

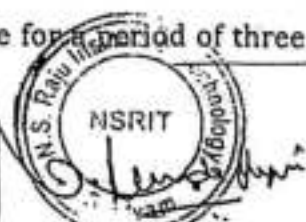
<b>APSSDC</b>	<b>Andhra Pradesh State Skill Development Corporation</b> <b>Door No. 78/2, G&amp;J Infra Infosight Building,</b> <b>Near Pathuru Junction, Tadepalli - 522501</b>
---------------	--

<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](http://www.nsr.it.edu.in) mail: [office@nsr.it.edu.in](mailto: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		
45	Pumping System	Virtual Reality	50
46	Piping System	Pumping	50
47	Radar systems	Piping	40
48	Laminate Composites	Radar	60
49	Dimensional Accuracy Control	CAD	8
50	Hull Design	Dimensional Accuracy Control	40
		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. V. 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.

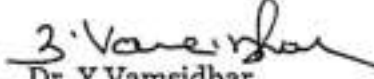
In witness whereof the undersigned, representing their respective institutions, hereby sign and approve this Memorandum of Understanding in duplicate, one copy for every signing party.

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(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, Rajashiekar 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 Securitles 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 Murugadas, DIRECTOR	Dinesh Kumar Grewal - CEO
E-mail: director@nait.edu.in	Info@hmiengineers.com
H.S. Raju Institute of Technology (A) Satyanarayana Raju Institute of Technology	https://www.hmies.org

Witness1:

Witness2:

Witness3:

Witness4:

#### 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)  
Soniyaam, Visakhapatnam-531173

Second Party

Dinesh Kumar Prasad  
CEO



## MEMORANDUM OF UNDERSTANDING

between

Nadimpalli Satyanarayana Raju Institute of Technology (NSRIT)  
and  
GEMS - 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 Satyanarayana Raju Institute of Technology (NSRIT) having its principal address at Soddyam, 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 39, 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 Valsersgraben 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 between Germany and globally.
- D. INDIAN UNIVERSITY, GEMS and APS intend to collaborate by entering into an MOU as well as 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 industry 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 described 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 supporting 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 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 fund sponsored research programs
- GEMS will be the organizing body for the process of this cooperation activity

1.2 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 scientists & 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 Centre for the 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 students 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, their respective Agents may from time to time disclose Confidential Information in current or proposed business to each other. In consideration of such Confidential Information made available to all parties, the first party, the second party and the third party agree 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 (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 shall prohibit disclosing 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 with their respective trademarks including that of any improvements or work done as a result of 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 ECMW 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.

Sri Satyanarayana Raju Institute of Technology (NSRIT)

*[Signature]*

Sri Satyanarayana Raju

NSRIT.

02-2019



Dr. Venkata Nagaraju

President - GC German Center for Engineering and Management Studies

Indian Affairs - European Center for Mechatronics APS GmbH

02-2019

Dr. Ing. T. Nagaraju

*[Signature]*

aps

APS GmbH  
Europäisches Zentrum  
für Mechatronik  
Völkner Straße 492  
52074 Aachen (Germany)

Dr. Ing. T. Nagaraju

President - European Center for Mechatronics APS GmbH

02-2019

Dr. Ing. T. Nagaraju

*[Signature]*

aps

APS GmbH  
Europäisches Zentrum  
für Mechatronik  
Völkner Straße 492  
52074 Aachen (Germany)

Dr. Ing. T. Nagaraju

President - European Center for Mechatronics APS GmbH

02-2019





GOVERNMENT OF ANDHRA PRADESH

GOVERNMENT OF INDIA

# AR

APPLIED

ROBOT

CONTROL

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





**SAHUWALA  
CYLINDERS (P)  
LIMITED**

242, D Block, Autonagar  
Visakhapatnam-530 012.



Off. : 0891-2517753  
2517012, 3299301  
Fax : 0891-2517762  
E-mail : info@sahuwalacylinders.com  
www : sahuwalacylinders.com

## MEMORANDUM OF UNDERSTANDING

BETWEEN

**M/s SAHUWALA CYLINDERS (P) Ltd, VISAKHAPATNAM**

**NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY,  
VISAKHAPATNAM**

This MOU is entered into on 12th Day of MAY, 2018 by and between

**SAHUWALA CYLINDERS (P) LTD (SCPL)** situated at Autonagar, Visakhapatnam (Andhra Pradesh), a well known Cylinders Manufacturing company, an ISO 9001:2015 Certified, Private Limited Company, which is manufacturing both low pressure and high pressure cylinders.

And

**Nadimpalli Satyanarayana Raju Institute of Technology** (Hereinafter called NSRIT) situated at Visakhapatnam (Andhra Pradesh), an Engineering college Accredited by NAAC with 'A' Grade, ISO 9001:2008 certified organization, approved by AICTE-Delhi, affiliated to JNTU-Kakinada.

### 1. OBJECTIVES OF THE MOU

The objectives of this Memorandum of understanding are:

- To promote the conscious information sharing between SCPL and NSRIT on the interests of mutually beneficial doctrines.
- To introduce wide range opportunities in the fields of Manufacturing and QA/QC for the students of NSRIT, through a conscious interaction.
- To nourish the students of NSRIT as per industrial requirements in the fields of QA/QC, Manufacturing and industrial safety.
- To provide Industrial visits, Internships, placements for trained candidates in the company.
- Provide necessary help in sending SCPL Technical experts to NSRIT for expert talks to fill the gap between academia and industry.

### 2. CONFIDENTIALITY

a. The SCPL and the NSRIT agree to hold the confidential of the information / Data designed by the both parties during the execution of MOU and will not disclose the same to any third party without mutual consent.

b. The above confidential clause under this MOU excludes the information / data possessed by either party before entering into this MOU or independently developed and /or information already available through public domain.

On behalf of M/s SAHUWALA CYLINDERS (P) LTD, Visakhapatnam	On behalf of Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam
Authorized sign with seal & date	Authorized sign with seal & date

**QUALITY ASSURANCE WITH ISO 9001**



**SAHUWALA  
CYLINDERS (P)  
LIMITED**

242, D Block, Autonagar  
Visakhapatnam-530 012.



Off. : 0891-2517753  
2517012, 3299301  
Fax : 0891-2517762  
E-mail : info@sahuwalacylinders.com  
www : sahuwalacylinders.com

### 3. DURATION OF MOU


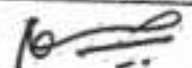
This MOU, unless extended by mutual written consent of the institutes, shall expire in 05 years after the effective date specified in the opening paragraph. However, on the review, the MOU shall be extended for another five years by Mutual consent.

### 4. CO-ORDINATORS

Both institutes will designate persons who will have responsibility for co-ordination and implementation of this agreement.

### 5. SIGNED IN DUPLICATE

This MOU is executed in duplicate with each copy being an official version and having equal legal validity. By signing below, the parties, the institutes, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of M/s SAHUWALA CYLINDERS (P) LTD., Visakhapatnam	On behalf of Nadimpalli Satyanarayana Raju Institute of Technology Visakhapatnam
 Authorized sign with seal & date	 Authorized sign with seal & date

**QUALITY ASSURANCE WITH ISO 9001**





### 2.3.1. Details of students undertaking internships

Name of the Program	Link for the Internships
Civil Engineering	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-CE-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-CE-2022(S4).pdf</a>
Computer Science and Engineering	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-CSE-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-CSE-2022(S4).pdf</a>
Computer Science and Engineering (AI & ML)	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-CSE%20AI%20&amp;%20ML-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-CSE%20AI%20&amp;%20ML-2022(S4).pdf</a>
Computer Science and Engineering (Data Science)	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-CSE%20DS-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-CSE%20DS-2022(S4).pdf</a>
Electronics and Communication Engineering	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-ECE-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-ECE-2022(S4).pdf</a>
Electrical and Electronics Engineering	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-EEE-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-EEE-2022(S4).pdf</a>
Mechanical Engineering	<a href="http://www.nsr.it.edu.in/admin/img/folder/SI-ME-2022(S4).pdf">http://www.nsr.it.edu.in/admin/img/folder/SI-ME-2022(S4).pdf</a>





**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad. ISO 9001:2015 Certified  
Recognized by UGC, New Delhi & Affiliated to JNTU, Hyderabad. ISO 9001:2015 Certified  
SOPHEANAL, Pondicherry - Accredited by NCA, New Delhi. ISO 9001:2015 Certified

**DEPARTMENT OF CIVIL ENGINEERING**

**2.3 - Teaching - Learning Process**

**2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:**

No.	Regd.No	Name of the Student	Name of the Course	Duration (Hours)	Learning Platform
1	18NU1A0101	Ankur Kumar Singh	STAAD PRO	30	IGIAT
2	18NU1A0102	Aresada Bhanoji Rao	Introduction to Project Management	30	Skill Up by Simpli Learn
3	18NU1A0104	Chaitanya Varma Sagaraju	STAAD PRO	30	IGIAT
4	18NU1A0105	Chundru Seiram	Auto Cad	30	UDEMY
5	18NU1A0106	Dandupolu Durga Prasad	Introduction to Project Management	30	Skill Up by Simpli Learn
6	18NU1A0107	Deerthi Sankata Sai Thirubadi Gopal	Auto Cad	30	UDEMY
7	18NU1A0112	Nakka Murali Krishna	Introduction to Project Management	30	Skill Up by Simpli Learn
8	18NU1A0115	Siraperapu Sri Lakshmi Narayana	STAAD PRO	30	IGIAT
9	18NU1A0116	Varada Thejus	STAAD PRO	30	IGIAT
10	19NU5A0104	Ankitha Srinwasi	Introduction to Project Management	30	Skill Up by Simpli Learn
11	19NU5A0105	Badithamanti Bhavana Sri	Auto Cad	30	UDEMY
12	19NU5A0110	Dadi Revanth	Introduction to Project Management	30	Skill Up by Simpli Learn
13	19NU5A0111	Dasari Siva Kumar	Introduction to Project Management	30	Skill Up by Simpli Learn
14	19NU6A0112	Gadi Tharun Kumar	Auto Cad	30	Benchmark solutions
15	19NU5A0113	Gogada Mounika	Introduction to Project Management	30	Skill Up by Simpli Learn
16	19NU5A0116	Ippili Venkata Ramana	Introduction to Project Management	30	Skill Up by Simpli Learn
17	19NU5A0122	Nalla Durga Prasad	Introduction to Project Management	30	Skill Up by Simpli Learn
18	19NU5A0126	Pogari Sakran	Introduction to Project Management	30	Skill Up by Simpli Learn
19	19NU5A0129	Pulamarasetti Ravindra	Auto Cad	30	UDEMY
20	19NU5A0130	Purushotham Venkata	Auto Cad	30	UDEMY
21	19NU5A0133	Shawukaru Lokesh	Auto Cad	30	UDEMY
22	19NU5A0134	Sirigani Mohan Rao	Introduction to Project Management	30	Skill Up by Simpli Learn
23	19NU5A0135	Vana Sai Kumar	Introduction to Project Management	30	Skill Up by Simpli Learn

Head of the Department

N.S. Institute of Technology  
Sontgaon, Andhra Pradesh - 521103

## Certificate

**SIRAPARAPU SRI LAKSHMI NARAYANA**

Successfully Completed Training Program in

**AUTOCAD**

From: 20<sup>th</sup> September 2021 to 21<sup>st</sup> October 2021

The following subject matters were covered in this training:

- ❖ Draw tools
- ❖ Modify Commands
- ❖ Block and Text Concepts
- ❖ Layers
- ❖ Hatching
- ❖ Dimensioning & Editing
- ❖ GD&T Symbols and Surface Roughness Symbols
- ❖ Plotting Concepts
- ❖ 3D Solid Modeling

Visakhapatnam, 21<sup>st</sup> October 2021

*Manoj*  
Coordinator

Certificate Number: 35582



*B. V. K.*  
Director

Code: 21/ACAD/08/05

**Indo-German Institute of  
Advanced Technology**

(A Joint Project of Govt. of Andhra Pradesh, Govt. of Germany and Gayatri Vidya Parishad)  
Society registered in Andhra Pradesh vide Society No. 1034 of 2003

# 38-22-29, Industrial Estate, Visakhapatnam - 530 007, Andhra Pradesh  
For Verification Visit : [www.iglat.com](http://www.iglat.com)

Supported by the  
German Govt. through  **glz**

# SkillUP

by Simplilearn

## Declaration of Completion

**Nalla Durga Prasad**

has successfully completed the online course:  
**Introduction to Project Management**

This professional has demonstrated initiative and a commitment to deepening their skills and advancing their career. Well done!

26<sup>th</sup> Jun 2022

Certificate code : 3557488

  
**Krishna Kumar**  
CEO

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING****Student Online Certification Academic Year 2021-2022**

Sl.NO	Roll Number	Name of the Student	Certification on Course	Date
1	18521A0504	Attili Sai Srija	Python Fundamentals For Beginners	30.06.2022
2	18521A0512	Golli Vsnv Revanth	Full Stack Development, Cyber Security	30.06.2022
3	18521A0517	Kommuri Pragna	Python Fundamentals	30.06.2022
4	18521A0518	Kommuru Sai Upendra *	Programming Using Python	30.06.2022
6	18521A0521	Madaka Vasundhara	Python	30.06.2022
6	18NU1A0501	Amara Padmavathi	Python 3 Programming Beginners	30.06.2022
7	18NU1A0502	Anakapalli Sasikiran	Artificial Intelligence Expert Course	30.06.2022
8	18NU1A0503	Athi Sai Saran	Python : Comprehensive Bootcamp	30.06.2022
9	18NU1A0505	Bhagi Durga Bhavani	Java	30.06.2022
10	18NU1A0508	B A G Avanthi	Sql	30.06.2022
11	18NU1A0510	Cheepulla Venkata Anusha	Data Science	30.06.2022
12	18NU1A0516	D.V.S.Vishwanadh	Devops	30.06.2022
13	18NU1A0518	G.Yuva Sri Harshitha	Data Science Foundations	30.06.2022
14	18NU1A0520	Gondesi Rudra Deepak	Introduction To Data Science	30.06.2022
15	18NU1A0521	Gorparthi Sai Lakshmi Phani	Javascript	30.06.2022
16	18NU1A0531	K Swathi	Machine Learning	30.06.2022
17	18NU1A0532	K Sai Kaivalya	Web Development Full Stack	30.06.2022
18	18NU1A0535	K. Madhuri	Data Science Foundation	30.06.2022
19	18NU1A0538	Margana Shyam Sundar	Basics Of Machine Learning	30.06.2022
20	18NU1A0539	M Teebu	Python Basic And Advance	30.06.2022
21	18NU1A0543	P. Rama Jyothi	Cloud	30.06.2022
22	18NU1A0545	P.Pavitra	Java	30.06.2022
23	18NU1A0546	Pinninti Pravalika	Java	30.06.2022
24	18NU1A0547	Rongali V S Devika	Html, Css And Javascript	30.06.2022
25	18NU1A0548	Sadaram Nayana Sai	Visualisation	30.06.2022
26	18NU1A0548	Sadaram Nayana Sai	Fundraiser Intern	30.06.2022
27	18NU1A0551	Sutepalli Sushma	Programming Concepts With Python	30.06.2022
28	18NU1A0554	Vemuri Gayathri	Data Mining	30.06.2022
29	18NU1A0557	Varanasi Lalitha	Python	30.06.2022
30	18NU1A0559	Vasa Lakshmi Lahari	Python	30.06.2022
31	18NU1A0560	Vemuri Saraswathi	Data Mining	30.06.2022
32	18NU1A0561	Jumsai Badarla	Cloud Computing	30.06.2022
33	18NU1A0566	Boyi Bhavani Uday Kumar Reddy	Internship Program	30.06.2022
34	18NU1A0572	G. Harsha Vardhan	Python	30.06.2022
35	18NU1A0573	Gorapalli Bhavana	Machine Learning	30.06.2022
36	18NU1A0576	G.Poojitha	Cloud Computing	30.06.2022
37	18NU1A0578	Gutlapalli Mohan Rao	Java Programming	30.06.2022
38	18NU1A0580	I.Tejaswini	Python	30.06.2022
39	18NU1A0582	Naveena Karumuru	Python	30.06.2022
40	18NU1A0588	M.Tejeswari	Tcs(Google Business Unit)	30.06.2022



41	18NU1A0590	Panduri Lalitha Likitha	Python For Beginners	30.06.2022
42	18NU1A0590	Panduri Lalitha Likitha	Machine Learning	30.06.2022
43	18NU1A0592	Pinnamaraju Keerthi	Machine Learning	30.06.2022
44	18NU1A0593	Uma Pinnamaraju	Web Development	30.06.2022
45	18NU1A0596	Pureddy Vijaya Lakshmi	Google Analytics Advanced Course	30.06.2022
46	18NU1A05A3	T. Satish	Azure Cloud Computing	30.06.2022
47	18NU1A05A4	V. G. Deepthi	Stack Developer	30.06.2022
48	18NU1A0509	Chadaram Eather	Protocol Stack Of 5g Network-lith	30.06.2022
49	19NU5A0510	Tamada Jeevan Sekhar	Sql	30.06.2022
50	18NU1A0525	Harsha Vardhan Srinivas Karri	Web Development	30.06.2022
51	18NU1A0544	Pemmisetty Deepak	Web Development	30.06.2022
52	19NU5A0505	N. Sai	Python	30.06.2022
53	18NU5A0509	Senapathi Ganesh Kumar	Java Full Stack Development	30.06.2022
54	18NU1A0522	Dileep Gorli	Introduction To Artificial Intelligence Offered By Nptel	30.06.2022
55	19NU5A0502	Doki Mukesh	ML In Python	30.06.2022
56	18521A0524	Kasa Praveen	Java Programming	30.06.2022
57	18NU1A0598	R.V. Harsha Vardhan	Web Development	30.06.2022
58	18NU1A0584	Maji Shanmukh Rao	Web Development	30.06.2022
59	18NU1A0534	Kolli Jahnvi	The Machine Learning Course 2020	30.06.2022
60	18NU1A05A2	Telur. Sudhakar	Python	30.06.2022
61	18NU1A0528	Kagupati Sampath Raja Raghupathi	Java Oop Basic To Advance	30.06.2022
62	18NU1A0549	Saripalli Mounika	Google It Support.	30.06.2022
63	19NU5A0506	Pentapalli Anitha	Python Fundamentals For Beginners	30.06.2022
64	18NU1A0581	Kaniseti Balaji	Python	30.06.2022
65	18NU1A0590	Panduri Lalitha Likitha	Machine Learning	30.06.2022
66	18521A0522	Magupalli Ramesh	Python Programming	30.06.2022
67	19NU5A0501	Bonu Siva Sai	Cyber Security	30.06.2022
68	18NU1A0567	Chittilla Somnath	Python For Beginners	30.06.2022
69	18NU1A0524	Gunturi Dileep Varma	Complete Ethical Hacking & Cyber Security Master Class Courses	30.06.2022
70	18NU1A05A6	Vunyuru Lakshmi Sowjanya	Machine Learning	30.06.2022
71	18NU1A05A5	Vijay Kumar Prasad	Solidity	30.06.2022
72	18NU1A0599	Sadhanale Gyana Nikitha	Machine Learning	01.07.2022
73	18NU1A0598	R.V. Harsha Vardhan	Web Development	01.07.2022
74	18NU1A0563	Bhairi Tirumala	Aws Technical Training	01.07.2022
75	18NU1A0583	Kehatri Sravani Bai	Python	01.07.2022
76	18NU1A0558	V. Jhansi Rani	Python	01.07.2022
77	18NU1A0591	Pilla Sravan	Python Fundamentals For Beginners	01.07.2022
78	18NU1A0595	Prayaga Krishna Saranya	Python Fundamentals For Beginners	01.07.2022
79	18521A0523	Ommi Dinesh	Python	01.07.2022
80	18NU1A053D	Kalla Sai Pranavi	Power Bi	01.07.2022
81	18NU1A0504	B. Reetika	Web Scraping Through Python	01.07.2022
82	19NU5A0508	Rayi Priyanka	Python Programming	01.07.2022
83	18NU1A0578	Gutlapalli Mohan Rao	Java Programming	01.07.2022
84	18NU1A0527	K B K Prabhavina	C And C++	01.07.2022
85	18NU1A0577	G Pradeep Chandra	Java Script Basics	01.07.2022

86	18NU1A0537	Macherla Bhargavi	My Sql	01.07.2022
87	18NU1A0579	Harshvardhan Reddy Gudla	Machine Learning	01.07.2022
88	18521A0526	Shaik Meraj Ali	Html Javascript Bootstrap Certification Course	01.07.2022
89	18NU1A0565	B Bhavya	Java Script Full Stack Development	01.07.2022
90	18NU1A0564	B Bhavana	Microsoft Azure Application	01.07.2022
91	18521A0507	Dayala Sai Bhargavi	Machine Learning	01.07.2022
92	18521A0513	G.Mouli	Java Full Stack Development	01.07.2022
93	18NU1A0594	Akhile	Html And Css	01.07.2022



HOD

Head of the Department  
Computer Science and Engineering  
N S Raju Institute of Technology  
Suryam, Vengal Rao - 517122



**APPLETON INNOVATIONS**

# **Certificate of Completion**

**This is to certify that**

**D.AYYAPPA**

**Has successfully completed  
Machine Learning Internship at Appleton Innovations**

**05 JUNE 2022**

**Date**

**Certificate Id: AT20200728**

*K. Bapu*

**Signature**



Certificate no: UC-7806071b-3c04-41e1-86a2-efdd0ed50e49  
Certificate url: <https://www.udacity.com/certificate/UC-7806071b-3c04-41e1-86a2-efdd0ed50e49>  
Reference Number: 0004

CERTIFICATE OF COMPLETION

# Artificial Intelligence Expert Course + Live Class

Instructors **Srinidhi Ranganathan, Saranya Srinidhi**

**Anakapalli sasikiran**

Date **June 28, 2022**

Length **19.5 total hours**



# Certificate of Completion

This is to certify that **Amara Padmavathi**  
successfully completed 13.5 total hours of **Python**  
**Programming Beginners Tutorial : Python 3**  
**Programming** online course on April 25, 2022

*Apy Tech*  
Apy Tech, Instructor

&  
 Udemy

Certificate no: UD-1352942-7364-46e2-67a1-4717466e478  
Certificate ID: 988e9f8c-43a2942-7364-46e2-67a1-4717466e478

#BeAble

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****List of Online Certification Courses**

No.	Name of the Student	Name of the Course	Duration (Hours)	Learning Platform
1	CH. S.L. SWARUP	Introduction to IOT	15	skillup by simplilearn
2	K. DIVYA	Introduction to IOT	15	skillup by simplilearn
3	P. GOVINDA	Introduction to IOT	15	skillup by simplilearn
4	M. HARI	Introduction to IOT	15	skillup by simplilearn
5	S. JEEVAN KUMAR	Introduction to IOT	15	skillup by simplilearn
6	S. VENKATESH	Introduction to IOT	15	skillup by simplilearn
7	T. RAJESH	Introduction to IOT	15	skillup by simplilearn
8	CH. DILLESWARA RAO	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
9	CH. SIREESHA	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
10	K. MOUNIKA	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
11	K. TRIVIKRAM	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
12	K. ESWAR RAO	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
13	MD. SAMEER	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
14	G. GAYATHRI	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
15	P. ANNAPOORNA	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
16	A. SAI GANESH	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
17	K. SUDHEER KUMAR	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
18	M. SRINIVAS	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
19	N. UMA SHANKAR	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
20	K. AVINASH	Arduino Step by Step	50	Udemy
21	P. ANJI	Arduino Step by Step	50	Udemy
22	SUMANTH MAHARANA	Arduino Step by Step	50	Udemy
23	K. DINESH	Arduino Step by Step	50	Udemy
24	P. B. N. V. SAI PAVAN	Arduino Step by Step	50	Udemy
25	S. SRAVANTHI	Arduino Step by Step	50	Udemy
26	T. CHANDINI	Arduino Step by Step	50	Udemy
27	B. INDIRA	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
28	D. MANIKANTA	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
29	K. VENU	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
30	M. JAGADEESH	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
31	N. DIVAKAR	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
32	S. VENKATESH	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
33	SK. TAJUDDIN	Self Charged Hybrid Electric Vehicle	20	EV SIKSHA ONLINE Platform
34	S. JAYA KRISHNA	Embedded Systems	7	ALISON
35	D. PUJITHA LAKSHMI	Embedded Systems	7	ALISON
36	K. PAVAN KALYAN	Embedded Systems	7	ALISON
37	P. VENKAT TEJA	Embedded Systems	7	ALISON
38	IRITIK RANJAN	Embedded Systems	7	ALISON
39	S. JAYA SHREE	Embedded Systems	7	ALISON
40	S. JAGADEESH	Embedded Systems	7	ALISON
41	PEELA SAGAR	Learning Arduino : Foundations	2	Linked in learning

42	POKALA GEETHA RANI	Learning Arduino :Foundations	2	Linked in learning
43	SARWASIDDI DEVI	Learning Arduino :Foundations	2	Linked in learning
44	BEHARA SAI PRATHUSH	Learning Arduino :Foundations	2	Linked in learning
45	MUNIMAGOPPALA CHAKRADHAR	Learning Arduino :Foundations	2	Linked in learning
46	SINGIREDDI GOWTHAM SAI	Learning Arduino :Foundations	2	Linked in learning
47	D.GOWTHAM	Python For Beginners	32	skillup by simplilearn
48	K.UMA MAHESWARI	Python For Beginners	32	skillup by simplilearn
49	B.KARTHIK	Python For Beginners	32	skillup by simplilearn
50	K.PRUCHMI YADAV	Python For Beginners	32	skillup by simplilearn
51	P.SIVA RAMA KRISHNA	Python For Beginners	32	skillup by simplilearn
52	U.SAI KRISHNA	Python For Beginners	32	skillup by simplilearn
53	R.LAVANYA LATHA	Masters in PLC	7	ALISON
54	M.PRASANTH	Masters in PLC	7	ALISON
55	K.KARTHIK	Masters in PLC	7	ALISON
56	G.KARTHEEK	Masters in PLC	7	ALISON
57	A.SRINIVASU	Masters in PLC	7	ALISON
58	IR.NARESH	Masters in PLC	7	ALISON



HOD EEE



## Learner Achievement Verification

This is to certify that Alison has awarded Salla Jagadeesh living in India the certificate of completion in Introduction to Embedded Systems.

### Learner Details



Name: Salla Jagadeesh

E-mail: sjagadeesh0952@gmail.com

Country: India



### Course and Result



Score  
85%

Study Time  
0:20:00

#### Introduction to Embedded Systems

Embedded computer systems are tiny integrated circuits embedded deep inside gadgets surrounding us. This course aims to give you a detailed explanation of the functionalities of these embedded systems using the building block approach. You will learn about demystifying terminology and the significant differences between embedded computers and general-purpose computing devices. You will also discover how to visualise embedded systems in a six-box model that has been developed over time.

### Modules Studied

Module 1: Embedded Systems Design

Module 2: Microcontroller Ecosystem

Module 3: Course assessment



### List of enrolled students for courses

S.No	Name of the Student	Course Name	BRANCH	YEAR	SEMESTER	VALUE ADDED COURSES
1	NEYYGAPULA NAGACHANDRAMOULI	Master Class on Artificial Intelligence	ECE	4	2	Pantech Solutions
2	AJITH PANDA		ECE	4	2	
3	ALLADA KIRAN		ECE	4	2	
4	BANDARU DIVYA		ECE	4	2	
5	EROTHI MEGHANA		ECE	4	2	
6	GADI VENKATA NAGA MANI KRISHNA		ECE	4	2	
7	KOLUKULOORI TEJA SATYA SASHANKA VARMA		ECE	4	2	
8	KUTTUM MADHU SREE		ECE	4	2	
9	VANAMOJU YASWANT SAI PAWAN		ECE	4	2	
10	ALLADA CHAITANYA SRAVANTHI	Master Class on Embedded C Programming	ECE	4	2	
11	AMNASAMUDRAM VINAYA SREE		ECE	4	2	
12	BAGGAM SURYA VENKATA		ECE	4	2	
13	DANTULURI NAGA SRAVANI		ECE	4	2	
14	GANDI RAMESH		ECE	4	2	
15	KALIDINDI SAICHARAN RAJU		ECE	4	2	
16	KALLA GOVARDHANI DEEPIKA		ECE	4	2	
17	KALPATAPU USHASRI		ECE	4	2	
18	KODUKULA GAYATHRI DEVI		ECE	4	2	
19	KOSURU PUSHKALA		ECE	4	2	
20	MAKKUVA SAI VINAY		ECE	4	2	
21	NUNNA KAVYA		ECE	4	2	
22	NYAYAPATI JAGANNADHA SRIKAR		ECE	4	2	
23	PASUMARTHI SWARNAMALA		ECE	4	2	
24	PATHIVADA JYOTHI		ECE	4	2	
25	RAJANA TEJA		ECE	4	2	
26	SALADI HEMALATHA		ECE	4	2	
27	SALAPU YASWANTH KUMAR		ECE	4	2	
28	SESETTI GAYATHRI		ECE	4	2	
29	SURAVARAPU RAJA RAJESWARI LAVANYA KUMAR		ECE	4	2	
30	VANDRANGI SAI PREETHI		ECE	4	2	
31	VYDA JAYANTH KUMAR		ECE	4	2	

32	YARABALA ,HARIKA		ECE	4	2	
33	SRIHASHYAM SRJA		ECE	4	2	
34	CH. SURESH		ECE	4	2	
35	GUNNABATHULA HARSHAPRIYA	Virtual Reality Master Class	ECE	4	2	
36	JEERU ROJA RAMANI		ECE	4	2	
37	TIRUMALARAJU VIJAYA BHASKARA VARMA	Internship on embedded system design and iot	ECE	4	2	
38	DUKKI TEJA	Introduction to Python	ECE	4	2	Infosys
39	G LOKESWARI		ECE	4	2	
40	ALLA RUTHIK KUMAR		ECE	4	2	
41	AVUGADDI BHAVANI		ECE	4	2	
42	BANDARU SRI KRISHNA		ECE	4	2	
43	BODDEDA NEERAJ		ECE	4	2	
44	G PRUDHVI SAI KUMAR		ECE	4	2	
45	GEDDA NITIN SATYA		ECE	4	2	
46	IRRA JITHENDRA		ECE	4	2	
47	KANDI JYOTHI		ECE	4	2	
48	KASTURI SAI KIRAN		ECE	4	2	
49	KORADA RAMANA		ECE	4	2	
50	MARRIPATI,JYOTSNA		ECE	4	2	
51	PENTAKOTA SRAVANI		ECE	4	2	
52	P SANJAY		ECE	4	2	
53	PRETHWIRAJ SRIBHAMA V		ECE	4	2	
54	RANDHI PAVAN KUMAR		ECE	4	2	
55	SANKILI PAVANI		ECE	4	2	
56	SARAGADAM SIRISHA		ECE	4	2	
57	SUNKARI RAMESH NAIDU		ECE	4	2	
58	VANTAKU RAMESH		ECE	4	2	
59	V DURGA KANAKA MAHA LAKSHMI		ECE	4	2	
60	YENNI AKHIL		ECE	4	2	
61	ADIREDDI HARIKA		ECE	4	2	
62	ADIREDDI LAVANYA		ECE	4	2	
63	ALUGOLU RAMKUMAR		ECE	4	2	
64	BAYANI KAVYA		ECE	4	2	
65	BHEMARASETTI NANDINI		ECE	4	2	
66	CHANDAKA SURYANARAYANA		ECE	4	2	
67	CHEPURI RAMAKRISHNA		ECE	4	2	
68	CHOPPA GEETHA SRI BHAVANI		ECE	4	2	
69	DADI JAGADESH		ECE	4	2	
70	DALIBOYINA THILOTHAMA YADAV		ECE	4	2	

71	ERUGULA RAMYA		ECE	4	2	
72	GALLA VENU VARDHAN		ECE	4	2	
73	GUDE JAYA SREE		ECE	4	2	
74	JADA HARISH KUMAR		ECE	4	2	
75	KALAMATA HARI KRISHNA		ECE	4	2	
76	KANDIPALLI ANANDKUMAR		ECE	4	2	
77	KINTHADA HARIKA DEVI		ECE	4	2	
78	KOTTANA SRIKANTH		ECE	4	2	
79	NEBARTHI SRAVANI		ECE	4	2	
80	POLOMERA VASHIKA		ECE	4	2	
81	PONAGANTI YASWANTHKUMAR		ECE	4	2	
82	PBSS KAMESHWARI SWETHA		ECE	4	2	
83	PUTTA SUJITH		ECE	4	2	
84	RAMASETTI SOWJANYA		ECE	4	2	
85	VARANASI PRAVEEN		ECE	4	2	
86	CHAPA SAI KISHORE	Exploratory data analysis	ECE	4	2	
87	D HIMA VARSHINI	Java programming fundamentals	ECE	4	2	
88	V MANOHAR	Wireless 5g overview	ECE	4	2	
89	BAYANI KAVYA	Wireless 5g overview	ECE	4	2	
90	JADA HARISH KUMAR	Wireless 5g overview	ECE	4	2	
91	KALAMATA HARI KRISHNA	Wireless 5g overview	ECE	4	2	
92	KINTHADA HARIKA DEVI	Wireless 5g overview	ECE	4	2	
93	POTHARAKANDI KOTESWARARAO	Wireless 5g overview	ECE	4	2	
94	CHANDAKA PAVAN		ECE	4	2	
95	DEVA DIVYA	Java programming fundamentals	ECE	4	2	
96	PENUMASA HARSHATHAVARMA	C Program for Beginners -Master the C Language	ECE	4	2	
97	ATTA SATYA GIRISH	Creating 3D environment in Blender	ECE	4	2	
98	DHARMAVARAPU ANEESHA		ECE	4	2	
99	KANITHI LEELA SAI KOTESWARI		ECE	4	2	
100	GELLI VEERA VENKATA VAMSI		ECE	4	2	
101	AVVA SAI LAKSHMI	VLSI - Physical Design	ECE	4	2	
102	NAVEEN KUMAR GORIVILI	The web developer Bootcamp	ECE	4	2	
103	POTNURU SAI TEJA	The complete 2022 Web development bootcamp	ECE	4	2	
104	RANGISETTI GOPICHAND	FPGA vhdl coding qspi nor flash memory from zero to hero	ECE	4	2	
105	RANGISETTI GOPICHAND	Learn vhdl from the beginning for fpga and cpld development	ECE	4	2	

Udemy

106	AKKARABOINA VANDHANA	Logistic Regression	ECE	4	2	Great Learning
107	MADDILA JASWANTH	Python fundamentals for beginners	ECE	4	2	
108	SACHIN YADAV	CSS and Java script – creating single page flexbox website	ECE	4	2	Alison
109	APPARI KARTHIK	C Programming	ECE	4	2	KEITA innovative services pvt.ltd
110	KANISETTI SIVANI	Microwave and Beyond : Present and Futuristic Wireless Communication Systems	ECE	4	2	Kalimpong Government Polytechnic (Govt. of West Bengal)
111	MARADANA KIRAN	Python programming	ECE	4	2	Sociel
112	PAKKI JOHNA SUDEEPA PATNAIK	Embedded system	ECE	4	2	Skill vertex
113	BANDARU DIVYA	AWS Academy Cloud Foundations	ECE	4	2	AWS academy
114	ALUGOLU RAMKUMAR	Python for beginners	ECE	4	2	Skillup

  
 Head of the department



CERTIFICATE NO. PS-AI-JUNE-2022-0060

17.27  
**PANTECHSOLUTIONS**  
Technologies Beyond the Dreams

## **CERTIFICATE OF PARTICIPATION**

**NAME** : N NAGA CHANDRA MOULI

**COLLEGE** : NSRIT

has Successfully Completed  
**MASTER CLASS ON ARTIFICIAL INTELLIGENCE (30 DAYS)**

at Pantech Prolabs India Pvt Ltd

From : MAY 9,2022 to : JUNE 7,2022

  
**M.K.JEEVARAJAN**

**DIRECTOR**

**PANTECHSOLUTIONS**

[www.pantechsolutions.net](http://www.pantechsolutions.net)

Udemy

Udemy

Certificate no: UC-24a8b0a6-7b4d-4813-ba62-f2425679d54  
Certificate URL: <https://www.udacity.com/certificate/UC-24a8b0a6-7b4d-4813-ba62-f2425679d54>  
Reference Number: 00000000000000000000000000000000

CERTIFICATE OF COMPLETION

# VLSI - Physical Design - 33 Hours of video

Instructors: JADA eLearning

**Karthik vemula**

Date: May 21, 2022

Length: 33 total hours

## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Harish Kumar Jada**

for successfully completing the course

**Wireless 5G Overview**

on Thursday, June 9th 2022

**Infosys Springboard**

*Congratulations - You make us proud!*

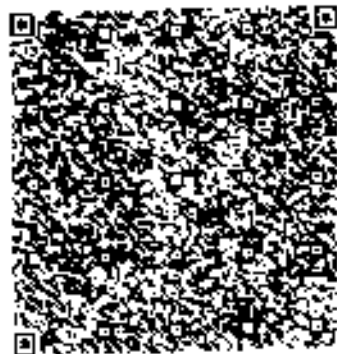


Durgamala Aradh

Senior Vice President and Head

Education, Training and Assessment (ETA)

Infosys Limited



Issued on Thursday, June 9th 2022  
This certificate can be verified by scanning the QR code or visiting <https://www.infosys.com>



# ||| COURSE COMPLETION CERTIFICATE |||

The certificate is awarded to

**BAYANI KAVYA**

for successfully completing the course

**Introduction to Python**

on Saturday, May 28th 2022

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on: Saturday, May 28th 2022

This certificate can be verified by scanning the QR code at <https://www.infosys.com>

Thirumala Arjith

Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited



1954-028

7. SECRET

1

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 10

• • •

1



www.pantechsolutions.net

## List of students (Advanced Learners) opted MOOCs

S.No	Name of the Student	Course Name	BRANCH	YEAR	SEMESTER	VALUE ADDED
1	Dumpa K.V Tirumala Reddy	CATIA	MECH	4	2	Great Learning
2	Dammiseti Vinay Prakash	CATIA	MECH	4	2	Great Learning
3	Dammu Sateesh	CATIA	MECH	4	2	Great Learning
4	Dupana Esaku	CATIA	MECH	4	2	Great Learning
5	G.L. Prasanna Kumar	Determination of the shear strength of unsaturated soils	MECH	4	2	Alison
6	B. Viswanadha Raju	Determination of the shear strength of unsaturated soils	MECH	4	2	Alison
7	P. Vamsi Krishna	Determination of the shear strength of unsaturated soils	MECH	4	2	Alison
8	N.Chandradeep Vama	Determination of the shear strength of unsaturated soils	MECH	4	2	Alison
9	K.Yugandhar	Oil in refrigeration and air conditioning systems	MECH	4	2	Alison
10	B.Jignas	Oil in refrigeration and air conditioning systems	MECH	4	2	Alison
11	K.Siva Kumar	Oil in refrigeration and air conditioning systems	MECH	4	2	Alison
12	G. Raja	Cargo Refrigeration and Plant Systems.	MECH	4	2	Alison
13	S.Vinay	Cargo Refrigeration and Plant Systems	MECH	4	2	Alison
14	U.Ganesh	Cargo Refrigeration and Plant Systems.	MECH	4	2	Alison
15	V.Dilip Varma	Cargo Refrigeration and Plant Systems.	MECH	4	2	Alison
16	G.Gayatri	Understanding fabrication and sensors in Automated systems	MECH	4	2	Alison
17	P.V.Sai Ram	Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
18	N.Madhu	Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
19	P.H.Patudu	Understanding fabrication and sensors in Automated systems	MECH	4	2	Alison
20	D.Sai Balaji	CATIA	MECH	4	2	Great Learning
21	G.Upendra	CATIA	MECH	4	2	Great Learning
22	G.Gopata Reddy	Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
23	D.Ashok	CATIA	MECH	4	2	Great Learning
24	Yeswanth Ch.	Bearing	MECH	4	2	Tata steel digi
25	Pavan Sandeep D	Heat treatment	MECH	4	2	Alison
26	Sampanth I	Bearing	MECH	4	2	Tata steel digi
27	Pavan Kumar S.	Material Analysis	MECH	4	2	Alison
28	Narash B.	Bearing	MECH	4	2	Alison

29	Guna Sekhar B.	Water Analysis	MECH	4	2	Alison
30	Sai Vardhan A.V.P	Heat Treatment	MECH	4	2	Alison
31	Leeladhar J.	Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
32	Tarun Teja K	Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
33	Satish K.	Heat Exchanger Types & Applications	MECH	4	2	Alison
34	Demudu Babu M.	Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
35	Guthula Prasanth Kumar	Mechanical Engineering – Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
36	Gorti Anvesh	Mechanical Engineering – Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
37	Gudla Maniram	Fundamentals of Solar Collectors	MECH	4	2	Alison
38	Guni Prudhvi Raj	Mechanical Engineering – Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
39	Reddy Prasad	Mechanical Engineering – Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
40	Raju Rangala	Introduction to Python	MECH	4	2	Infosys
41	Rayavarapu Balu	Mechanical Engineering – Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
42	Seera Devakrishna	Mechanical Engineering – Plate Heat Exchanger Fundamentals	MECH	4	2	Alison
43	Hari Krishna	Additive Manufacturing Architecture	MECH	4	2	Alison
44	Satish Kumar Pangri	Mechanical Engineering – Internal Combustion Engine Basics	MECH	4	2	Alison
45	Selish Golagani	Fundamentals of Transportation Management	MECH	4	2	Alison
46	Lovaraju P	Manufacturing Technologies	MECH	4	2	Alison
47	A. Pravalika	3D Printing Encoder	MECH	4	2	Alison
48	B. Tirupathi Reddy	3D Printing Encoder	MECH	4	2	Alison
49	G. Vinay Varma	3D Printing Encoder	MECH	4	2	Alison
50	D. Vinay Kumar	3D Printing Encoder	MECH	4	2	Alison
51	K. Janaki Ram	Heat Exchangers	MECH	4	2	Alison
52	Raj Gopal M	Plate Heat Exchangers Fundamentals	MECH	4	2	Alison
53	Kalyan Ram P	Design of Electric Vehicles Batteries	MECH	4	2	Alison
54	Krupa Raj G	Plate Heat Exchangers Fundamentals	MECH	4	2	Alison
55	K. Hemanth	Calculus Automotive and Industrial	MECH	4	2	Alison
56	P. Ram Prasad	Plate Heat Exchangers	MECH	4	2	Alison
57	K. Ram Chandrudu	Plate Heat Exchangers	MECH	4	2	Alison
58	Tharakeswaracharyulu.K	Heat Exchanger Types and Applications	MECH	4	2	Alison
59	CH. Ranya	Plate Heat Exchangers	MECH	4	2	Alison
60	B. Jeevan Kumar	Bearing	MECH	4	2	Tata steel dgi
61	G. Shiva	Cast Technology	MECH	4	2	Alison

62	K.Shyam Sekhar	Bearing	MECH	4	2	Tata steel digl
63	K.Naveen Subash	Material Analysis	MECH	4	2	Allison
64	V.Balaraju.	Bearing	MECH	4	2	Allison
65	V.Srinivas	Material Analysis	MECH	4	2	Allison
66	V.Swamy	Heat Treatment	MECH	4	2	Allison
67	Sal Nishanth Nalla	Diploma in Advances in Welding and Joining Technologies	MECH	4	2	Allison
68	BonalaNagaraju	Mechanical Engineering - Plate Heat Exchanger Fundamentals	MECH	4	2	Allison
69	Pavan Gopal	Manufacturing Processes - Metalworking	MECH	4	2	Allison
70	Darvi.P	Fundamentals of Solar Collectors	MECH	4	2	Allison

Head of the Department

20/05/2024





# CERTIFICATE OF COMPLETION

Presented to

**B.NARESH**

For successfully completing a free online course

**Catia**

Provided by

**Great Learning Academy**

(On June 2022)



# Learner Achievement Verification

This is to certify that Alison has awarded Gayatri Gedela living in India the certificate of completion in Understanding Fabrication and Sensors in Automated Systems.

## Learner Details



Name: Gayatri Gedela  
Email: gayatri18022@gmail.com  
Country: India



## Course and Result



Score  
80%

Study time  
3:22:18

### Understanding Fabrication and Sensors in Automated Systems

'Automated manufacturing' refers to the use of equipment to automate systems or production processes. The end goal is to drive greater efficiency by either enhancing production capacity or reducing costs. The prime focus of this course relies on two important topics: fabrication and sensors in industrial automation. We begin by illustrating the various components of a fully-fledged automated system. You will discover the prime factors considered in the selection process of the components. Nex

## Modules Studied

- Module 1: Fabrication and Design of Components
- Module 2: Sensors used in Measurement Systems
- Module 3: Course assessment



# Learner Achievement Verification

This is to certify that Alison has awarded Sri Rama sai K living in India the certificate of completion in Biointerface Engineering: Surface Modification and Characterization.

## Learner Details



Name: Sri Rama sai K

E-mail: sriramsai1403@gmail.com

Country: India



## Course and Result



Score:  
92%

Study Time:  
4:03:22

### Biointerface Engineering: Surface Modification and Characterization

Implants in the body are required in certain medical conditions such as fractures, dental injuries, or hip disorders that necessitate hip replacement procedure. The commonly used materials for the implants are metals such as titanium alloys, stainless steel, and alumina. These materials are non-biological objects and are essentially foreign objects to the body, and therefore require particular improvements to make them compatible with the body systems.

## Modules Studied

Module 1: Surface Modification

Module 2: Self-Assembled Monolayers

Module 3: Course assessment



# Learner Achievement Verification

This is to certify that Alison has awarded KOTHURTHI SRIKANTH living in India the certificate of completion in AutoCAD: Beginner to Professional Training.

## Learner Details



Name: KOTHURTHI SRIKANTH  
E-mail: sreekanthsri150@gmail.com  
Country: India



## Course and Result



Score:  
96%

Study Time  
1:44:04

### AutoCAD: Beginner to Professional Training

This free online course is aimed at people with absolutely no prior experience of the popular design software AutoCAD, which is used in a range of industries, from construction to manufacturing. The training offered here will also be helpful to anyone who may have used the software in the past but would like to go over some of the details. We cover AutoCAD and its keyboard shortcuts to increase your efficiency.

## Modules Studied

- Module 1: Introduction to Functions and Settings
- Module 2: Drawing, Modifying and Editing Commands
- Module 3: Dimension, Block and Layer Commands
- Module 4: Course assessment