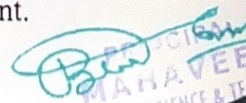




ECE (2)

**Memorandum of Understanding between Mahaveer Institute of Science & Technology, Hyderabad & Conscience, Technology, Hyderabad for Research & development activities in the Dept. of Electronics and Communications. Laboratories. for the Academic year 2022-23**

1. M/S Conscience Technologies will submit the list of Mini and Main projects to the HOD of ECE Dept to finalize the project titles for the B.Tech Students
2. HOD of ECE finalizes the list of Mini and Main projects and Project Coordinator will submit project cost proposal for finalization.
3. Hod of ECE obtains approval for the project cost from the Management and provides the Project implementation plan
4. M/S Conscience Technologies will undertake the project guidance work to the students in developing the projects and project records within the stipulated period.
5. M/S Conscience Technologies will provides technical guidance to the students in paper presentation on some of the selected Projects, developed in the Labs.
6. M/S Conscience Technologies will mould some projects as Model Exhibits for display and demonstrations in the Techno Mist ,yearly intercollege Technical event..
7. M/S Conscience Technologies provides opportunities to the passed out students of B.Tech, ECE as entrepreneurs in developing specific projects as per the Industry requirement.

  
MAHA VEER  
INSTITUTE OF SCIENCE & TECHNOLOGY

8. M/S Conscience Technologies also provides job opportunities to the B.Tech, ECE Graduates of MIST depending on the Company requirement every year.

9. M/S Conscience Technologies and MIST faculty guides will identify few student innovative projects.

HOD, ECE Dept  
MIST, Hyderabad  
Date: 12/7/22

M/S Conscience Technologies,  
Hyderabad  
Date: 12/7/22



Principal, MIST  
Date: 12/7/22

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.





MEMORANDUM OF UNDERSTANDING  
BETWEEN

MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
AND  
SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED

EEEB



This Memorandum of Understanding (MOU) establishes a type of partnership between SKILLDZIRE and MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY.

**MISSION:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** is India's largest Real time learning platform where students get trained by industry experts along with certifications in domain of Electronics and Communication Department.

**MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** ensures high standards to educate, enrich and excel the professional Programs, by eminent faculty who endeavors to mold the students into socially responsible professionals through creative team work, innovation and research.

Together, we enter into this Memorandum of Understanding to promote PLACEMENTS, INTERNSHIPS, WORKSHOPS AND PROJECTS. Accordingly, **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** operating under this MOU agree as follows:

**PURPOSE AND SCOPE:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** describe the intended results or effects that the organizations hope to achieve, and the area(s) that the specific activities will cover.

Benefits **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**

- o Workshops FDP's
- o Internships
- o Real time projects Industry visits
- o Core job-oriented training
- o Certifications
- o Placements

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081

Who is the target?

- Students of
- 2<sup>nd</sup> year III Semester for workshops.
  - 2<sup>nd</sup> year IV Semester for Industry visits
  - 3<sup>rd</sup> year V Semester for Skill Development Programs
  - 3<sup>rd</sup> year VI Semester and Summer for Job Oriented training.
  - 4<sup>th</sup> year for Placements and Real time projects.

### TERMS OF UNDERSTANDING:

The term of this MOU is for a period of 3 years with effect from 06/01/2023. This MOU can be extended upon written mutual agreement. It shall be *reviewed annually* to ensure that it is fulfilling its purpose and to make any necessary revisions.

Either organization may terminate this MOU upon thirty (30) days written notice without penalties or liabilities.

### AUTHORIZATION:

The signing of this MOU is not a formal undertaking. It implies that the signatories will strive to reach to the best of their ability, the objectives stated in the MOU.

On behalf of the organization I represent, I wish to sign this MOU and contribute to its further development.

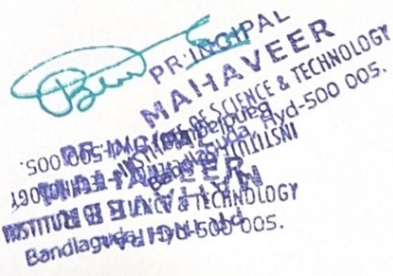
Your organization:  
**MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY**

**Dr. Jaspal Kumar**  
Professor & HOD of ECE

**Dr. B.V. Shanker Ram**  
Professor & Principal

Partnering Organization:  
**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Name: **Srikanth Muppala**  
Director  
**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081



## MEMORANDUM OF UNDERSTANDING

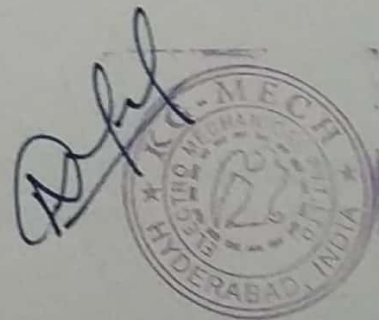
This Memorandum of Understanding (here in after called as the 'MOU') is entered into on this the 2<sup>nd</sup> day of January — Two Thousand Twenty (02-01-2020) & 2<sup>nd</sup> day of January 2025 Two Thousand Twenty-five (02-01-2025) by and between

**KG MECH ELECTRO MECHANICAL, PVT.LTD. the First Party**, and represented herein by its Zonal / Divisional Head, Syed Abdul Gaffar, (hereinafter referred to as "First Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

**MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, DEPARTMENT OF CIVIL ENGINEERING, Bandlaguda, Hyderabad, Telangana, the Second Party** represented herein by its Mr.CH.Swethamber (hereinafter referred as 'Second Party', the institution 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') as



**MEMBER**



ISO: 9001-2008 Certified Company

## WHEREAS:

- A) Second Party is a Higher Educational Institution named:
- B) Mahaveer Institute Of Science And technology (Department Of Civil Engineering)
- C) 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.
- D) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- E) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- F) **KG MECH Electro Mechanical Pvt. Ltd**–, the First Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of – *Civil, Electrical & Mechanical trades of Fabrication, Construction & Contracting Industry in terms of services including but not limited to Design, Drafting, 3D modeling, Site & QA/QC, etc.*
- G) **KG MECH Electro Mechanical Pvt. Ltd**, the First Party is promoted by **KG MECH** Group having its diversified sectors in industry & Education including IAS, Groups, Engineering chapters, etc
- H) **KG MECH Electro Mechanical Pvt. Ltd**, the First Party has multiple branches in India catering to the Industrial & Educational needs of Engineers &

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

**MEMBER**



ISO: 9001-2008 Certified Company



**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 First 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 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.
- 2.2 **Industrial Training & Visits:** Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the First Party to permit the Faculty and Students of the Second 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 1755 sq. ft. campus

MEMBER



ISO: 9001:2008 Certified Company

Industrial Sites for the hands-on training of the learners enrolled with the First Party.

- 2.3 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of **Engineering, trainings, etc.**
- 2.4 **Skill Development Programs:** First Party to train the students of Second Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.5 **Guest Lectures:** First Party to extend the necessary support to deliver guest lectures to the students of the Second Party on the technology trends and in house requirements.
- 2.6 **Faculty Development Programs:** First Party to train the Faculties of Second Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.7 **Placement of Trained Students:** First Party will actively engage to help the delivery of the training and placement of students of the Second Party into internships/jobs.
- 2.8 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.9 There is no financial commitment on the part of the **Mahaveer Institute Of Science and Technology**, the Second 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.

### 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 **KG MECH Electro mechanical Pvt.ltd.** the First Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of **KG MECH Electro mechanical Pvt.ltd.** the First 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.

**Mahaveer Institute Of Science And Technology**  
(Department Of Civil Engineering)  
Second Party

**KG MECH Electro Mechanical pvt.ltd**  
First 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 Second Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Hyderabad**.

**AGREED:**

For

**Mahaveer Institute Of Science And Technology**

**KG MECH Electro Mechanical, pvt.ltd.**

*Keshav*

PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
Authorized Signatory  
Bandlaguda, Hyd-500 005

Authorized Signatory

<b>Name of Institution: Mahaveer Institute Of Science And Technology</b>	<b>Name of Industry : KG MECH Electro Mechanical pvt.ltd</b>
<b>Address :</b> Vyasapuri, Keshavagiri (post),Hyderabad, Telangana 500009.	<b>Address :</b> Beside srinivasa hospital, Santosh nagar, Hyd - 500059
<b>Contact Details :</b> Mr.CH.Swethamber	<b>Contact Details :</b> Syed Abdul Gaffar
<b>E-mails:</b> e3hod.civil@gmail.com	<b>E-mails :</b> sagaffar@kgmech.in
<b>Web:</b> www.mist.ac.in	<b>Web:</b> www.kgmech.in

Witness 1:

Witness 2:

Witness 3:

Witness 4:



## CANTER Technologies Pvt. Ltd

Block 'A'- 4th Floor, Eashwar Tower,  
above More Supermarket,  
IS Sadan 'X' Road, Santhoshnagar,  
Hyderabad - 500 059.  
Ph. : +91 40 6557 3333,  
Cell : +91 89782 71111  
E-mail : santhoshnagar@cantercadd.com  
Website : www.cantercadd.com



### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is renewal made at HYDERABAD, Bandlaguda on this January 20<sup>th</sup> 2019 , between CANTER CADD INDIA PVT.LTD., 4<sup>th</sup> floor, Diamond Corner, Gachibowli, Hyderabad-500 008, Telangana (hereinafter referred to as "CANTER CADD", which expression shall unless repugnant to the context or meaning thereof, include its successor-in-Interest and permitted assigns)

AND

**Department of Civil Engineering, Mahaveer Institute Of Science and Technology** approved by All India Council for Technical Education (AICTE) and affiliated to Jawaharlal Nehru Technological University, Hyderabad and situated at "Vyasapuri, Bandlaguda, Hyderabad-500005 , Telangana" (here in after referred to as "MIST", which expression shall unless repugnant to the context or meaning there of, include its successor-in-interest and permitted assigns)

  
PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyderabad - 500 005



Corporate Office: 8-2-293/82/1/70-A/B, Sri Venkateswara Co-Operative Housing Society, Road No. 12, Banjara Hills, Hyderabad - 34 A P India  
Phone +91-40-4003 3566. E-mail: info@cantertechnologies.com Website: www.cantertechnologies.com

Branches: Ameerpet Dilsukhnagar Habsiguda Himayatnagar Kukatpaly Mehdiapatnam Tirumalagherry Vijayawada

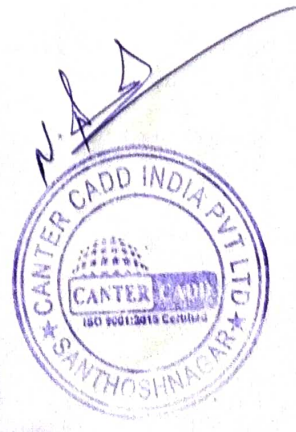




**Objectives:**

1. This MoU is signed with the objectives of furthering industry-academic relationship for mutual benefit, building fruitful and mutual relations, and of proposing to offer programs of mutual interest as agreed by the parties.
2. MIST intend to organize **Technical seminars, workshops, conferences and Training Programmes**, in association with the **CANTER CADD** to provide the Civil Engineering community with the latest developments in research and developments of construction industry.
3. **CANTER CADD** in association with **MIST** shall arrange for **industrial visits, Students Project collaboration, Internship, Industry Offered Courses, seminars and guest lectures** from Industry professionals/HR/Placement Agencies/Technology vendors to interface the students with global industry trends.
4. **CANTER CADD** and **MIST** shall together initiate research and development projects and shall carry out **collaborative research** in **Software** and construction industry.
5. **MIST** accepts to appoint and extend faculty, Laboratory and other Infrastructure support towards the activities of **CANTER CADD**.
6. There will be up to **60 students** for training every academic year and an **academic calendar** that incorporates the possible dates for the training can be evolved with mutual consent.

  
**PRINCIPAL**  
**MANGVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bangalore, Ph: 080 666 6666






NOW THIS MEMORANDUM OF UNDERSTANDING (MOU) WITNESSETH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

The MIST shall use the assistance, sponsorship or support provided by CANTER CADD only for the purpose expressly stated in the MoU and not for any other purpose, unless otherwise agreed upon by the parties. Further, CANTER CADD may sponsor symposiums, workshops, technical presentations etc., to be conducted at the college, at its own discretion.

#### VALIDITY

- The agreement is valid for a period of Three years with effect from the date of signing of the agreement and may be renewed after that period.
- Both parties shall meet and finalize about renewal of the Memorandum two months in advance before the expiry of the said period.
- Both Parties shall have the right to cancel the Memorandum by informing one month in advance.

IN WITNESS THEREOF the authorized signatories of CANTER CADD and MIST have signed this Memorandum of Understanding on the day, month and year first above written.

  
PRINCIPAL  
MADHUR  
INSTITUTE OF SCIENCE & TECHNOLOGY  
BANDARPOLE, HYD- 509 005







For MIST-Department of Civil  
Engineering, Mahaveer Institute Of  
Science and Technology

For CANTER CADD INDIA  
PVT.LTD

Signature:

Name: Dr. B.Nageswar Rao  
Designation: PRINCIPAL, MIST

Signature:

Name: N. PRUTHVI KUMAR  
Designation: Asst Manager

Witness: 1

Witness: 1

Signature:

Name: CH.Swethamber  
Designation : Professor & Head  
Department of  
Civil Engineering

Signature:

Name:  
Designation :

Witness: 2

Witness: 2

Signature:

Name: Dr M.Vasantha laxmi  
Designation : Associate Professor,  
Department of  
Civil Engineering

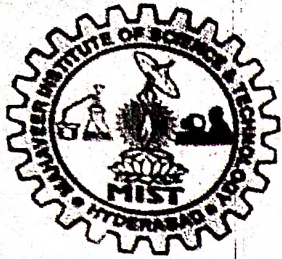
Signature:

Name:  
Designation :

PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd- 500 045







MEMORANDUM OF UNDERSTANDING  
BETWEEN

MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
AND  
SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED



This Memorandum of Understanding (MOU) establishes a type of partnership between **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**.

**MISSION:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** is India's largest Real time learning platform where students get trained by industry experts along with certifications in domain of Civil Department.

**MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** ensures high standards to educate, enrich and excel the professional Programs, by eminent faculty who endeavors to mold the students into socially responsible professionals through creative team work, innovation and research.


Together, we enter into this Memorandum of Understanding to promote **PLACEMENTS, INTERNSHIPS, WORKSHOP'S AND PROJECTS**. Accordingly, **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** operating under this MOU agree as follows:

**PURPOSE AND SCOPE:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** describe the intended results or effects that the organizations hope to achieve, and the area(s) that the specific activities will cover.

Benefits **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**

- o Workshops FDP's
- o Internships
- o Real time projects Industry visits
- o Core job-oriented training
- o Certifications
- o Placements

  
PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Banolaguda, Hyd-500 005.

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081



Who is the target?

Students of

- 2<sup>nd</sup> year III Semester for workshops.
- 2<sup>nd</sup> year IV Semester for Industry visits
- 3<sup>rd</sup> year V Semester for Skill Development Programs
- 3<sup>rd</sup> year VI Semester and Summer for Job Oriented training.
- 4<sup>th</sup> year for Placements and Real time projects.

## TERMS OF UNDERSTANDING:

The term of this MOU is for a period of 3 years with effect from 06/01/2023. This MOU can be extended upon written mutual agreement. It shall be *reviewed annually* to ensure that it is fulfilling its purpose and to make any necessary revisions.

Either organization may terminate this MOU upon thirty (30) days written notice without penalties or liabilities.

## AUTHORIZATION:


The signing of this MOU is not a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the objectives stated in the MOU.

On behalf of the organization I represent, I wish to sign this MOU and contribute to its further development.

Your organization:

**MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY**

  
**CH. Swethamber**  
Professor & HOD of Civil


  
**Dr. B.V Shanker Ram**  
Professor & Principal

Partnering Organization:

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

  
Name: **Srikanth Muppala**  
Director  
**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**



  
PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 085.

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081





**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD**

**AND**

**CONSCIENCE TECHNOLOGIES, HYDERABAD**

This agreement is made on 15<sup>th</sup> April 2019  
Between

**MI. MEMORANDUM OF UNDERSTANDING**

**MI.1 MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD**, functioning at 15th April 2019 vyasapuri bandlaguda, Hyderabad, 500005. (Here in after called COLLEGE, which expression shall where the context so admits includes its successors and permitted assigns) of the other part.

**AND**

**MI.2.** This MEMORANDUM OF UNDERSTANDING (MoU) is made and entered into force this 15th April 2019 between **CONSCIENCE TECHNOLOGIES**, having its office at 17-83/2C, 3<sup>rd</sup> Floor, Opp. Bank of Maharashtra, Srinagar colony, Dilsukhnagar, Hyderabad, (Hereinafter called **CONSCIENCE TECHNOLOGIES** which expression shall where the context so admits include its successors and permitted assigns) as one part.

**PRINCIPAL**  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra,  
Annapurna Function Hall Line,  
Dilsukhnagar, Hyderabad-500060.  
☎ : 040-6012 1199





### M.2.1 CONSCIENCE TECHNOLOGIES - COMPANY PROFILE

CONSCIENCE TECHNOLOGIES is an amalgamation of best practices and competencies brought in by leading professionals on some of the most renowned names of the corporate world. Knowledge drives us over the past decades; CONSCIENCE TECHNOLOGIES has provided specialized knowledge services to a wide range of industry verticals, this puts us in a unique position where we are able to not only deliver cutting edge solutions but also help build in-house competencies of our clients, be it in the knowledge services domain or a part of our enterprises services.

Our R&D staff with rich and vivid experience work round the clock with innovative skills, updated software technologies and perfect interpersonal learning, which makes this division an unique one. Our researchers utilize advanced search techniques, and carry out research on many search engines and other search tools on the World Wide Web. We undertake all kinds of custom research needs also.

CONSCIENCE TECHNOLOGIES holds a very close tie-up with most of the institutions. It's one of the best approved companies in Hyderabad for students In-Plant Training, FDP, Internship Training, Final Year projects, Placement Training Technology and Training.

### M.2.2 MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY, HYDERABAD

As an Institute committed to quality education, MIST aims at providing learning with a technology-edge. It endeavors to provide consistent training to its students to help them evolve as competent professionals in the highly competitive world. Right from its inception in 2001, it has been tuning itself to meet this objective.

A new civilization is emerging in our lives. This new civilization brings with it a new way of working. Millions are already tuning their lives to the rhythms of tomorrow.

The technological revolution and the forces of globalization are changing the very functioning of the organizations significantly in recent years.

Success nowadays, requires not only the ability to perform according to the requirements of the position, but also the ability to adjust and get along as a member of a working team. Two critical aspects of preparation for success in the workplace are Education and Training, so that you will have the required knowledge, skills and a high level of self-motivation including initiative and responsibility.

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra  
Annapurna Function Hall Line,  
Dilsukhnagar, Hyderabad-500060.  
☎ : 040-6012 1199



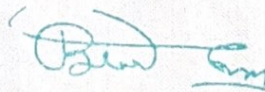
The CSE department was established with B.Tech Program in 2001 with intake of 60 students and this was increased to 120 students in 2006-2007. The Post graduate Program M.Tech with C.S.E specialization was started in 2009 with intake of 18 Students.

Department mission is to make innovative thinking engineers and to produce skilled software engineers. The department of Computer Science and Engineering has progressed with a strong determination to developing competent programs, uncompromising in standards. The department has full fledged faculty members with experience in industry and teaching, which leads the students to get employment in the market.

The department encourages the faculty members and the students to participate paper presentations, seminars, workshops and National and International conferences. The department encourages the faculty members to undertake research activities. The department is equipped with state-of-art laboratories and the computers have sophisticated development software tools. The department provides training to its students in advanced technologies like .NET, FLEX, Data Warehousing, Data Mining tools and Data storage systems as a supplement to the curriculum to enhance the employability of students. The department conducted various workshops with collaboration of JKC, IBM, Infosys, (EMC)2. Our senior faculty members are the members of Computer Society of India, ISTE, IEEE.

### M.3 MoU between CONSCIENCE TECHNOLOGIES and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD:

After studying the strengths and objectives, CONSCIENCE TECHNOLOGIES and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, agreed that they can share the expertise available at both ends for mutual benefits in the field of education, training, scientific and industrial research and enter in MoU. Based on the discussion held among the faculty of the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, certain thematic areas/programmes have been identified for mutual collaboration.



PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandraquda, Hyd-500 005



The Memorandum of Understanding envisages the following:

M.3.1 Collaborative technical and development activities in the fields of education and training are listed below. The following activities will be carried out between CONSCIENCE TECHNOLOGIES and the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OF MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.

- a) Training (Internship, In-Plant Training, Workshop).
- b) Lab Equipment
- c) Student projects.
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M.3.3. CONSCIENCE TECHNOLOGIES and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD shall share facilities such as computers, sophisticated equipment, instrument etc and library facilities according to rules and regulations of each institution.

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PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005



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IN WITNESS OF THE UNDERSIGNED, duly authorized there to, have signed this memorandum of understanding on 15th April 2019 in two originals.



*Krishna Reddy*  
MANAGING DIRECTOR  
CONSCIENCE TECHNOLOGIES  
HYDERABAD- 500 060.

*[Signature]*  
PRINCIPAL  
MAHAVEER INSTITUTE OF  
SCIENCE AND TECHNOLOGY,  
HYDERABAD- 500 107.

Witness

Witness

1. *B.V.K. Reddy*

1. *[Signature]*

2. *[Signature]* 2. *[Signature]*

PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Dilsukhnagar, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra,  
Annapurna Function Hall Line,  
Dilsukhnagar, Hyderabad-500060.  
☎ : 040-6012 1199





MEMORANDUM OF UNDERSTANDING  
BETWEEN

MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
AND  
SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED



This Memorandum of Understanding (MOU) establishes a type of partnership between SKILLDZIRE and MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY.

**MISSION:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** is India's largest Real time learning platform where students get trained by industry experts along with certifications in domain of CSE & IT Department.

**MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** ensures high standards to educate, enrich and excel the professional Programs, by eminent faculty who endeavors to mold the students into socially responsible professionals through creative team work, innovation and research.

Together, we enter into this Memorandum of Understanding to promote PLACEMENTS, INTERNSHIPS, WORKSHOP'S AND PROJECTS. Accordingly, **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** operating under this MOU agree as follows:

**PURPOSE AND SCOPE:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** describe the intended results or effects that the organizations hope to achieve, and the area(s) that the specific activities will cover.

**Benefits MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**

- o Workshops FDP's
- o Internships
- o Real time projects Industry visits
- o Core job-oriented training
- o Certifications
- o Placements

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081

Who is the target?

Students of

- o 2<sup>nd</sup> year III Semester for workshops.
- o 2<sup>nd</sup> year IV Semester for Industry visits
- o 3<sup>rd</sup> year V Semester for Skill Development Programs
- o 3<sup>rd</sup> year VI Semester and Summer for Job Oriented training.
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The term of this MOU is for a period of 3 years with effect from 06/01/2023. This MOU can be extended upon written mutual agreement. It shall be *reviewed annually* to ensure that it is fulfilling its purpose and to make any necessary revisions.

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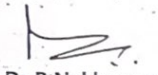
**AUTHORIZATION:**

The signing of this MOU is not a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the objectives stated in the MOU.

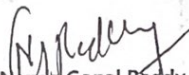
On behalf of the organization I represent, I wish to sign this MOU and contribute to its further development.

Your organization:

**MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY**



Dr. R. Nakkeeran  
Professor & HOD of CSE



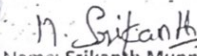
Dr. A. Nanda Gopal Reddy  
Professor & HOD of IT



Dr. B. V. Shanker Ram  
Professor & Principal

Partnering Organization:

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

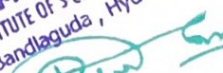


Name: Srikanth Muppalla  
Director

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**



**PRINCIPAL**  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081



MEMORANDUM OF UNDERSTANDING  
BETWEEN  
PANTECH PROED PVT LTD, HYDERABAD  
AND  
MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD

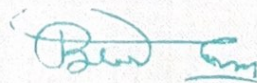
This agreement is made on 03<sup>rd</sup> January 2019  
Between

MI. MEMORANDUM OF UNDERSTANDING

MI.1 This MEMORANDUM OF UNDERSTANDING (MoU) is made and entered into force this 03<sup>rd</sup> January 2019 between PANTECH PROED PVT LTD, having its office at 4<sup>th</sup> floor, Delta Chambers, Behind Chennai Shopping Mall, Ameerpet Hyderabad. (Hereinafter called PANTECH PROED PVT LTD which expression shall where the context so admits include its successors and permitted assigns) as one part.

AND

MI.2. MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, functioning at 03<sup>rd</sup> January 2019, vyasapuri bandlaguda, Hyderabad-500005. (Here in after called COLLEGE, which expression shall where the context so admits includes its successors and permitted assigns) of the other part.



PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005

**Pantech ProEd Private Ltd**

4th Floor, Delta Chambers, Ameerpet Circle, Near J.C. Brothers, Ameerpet, Hyderabad - 500 016. Phone : 040 - 40077960  
E-mail : [hyd@pantechmail.com](mailto:hyd@pantechmail.com) [www.pantechproed.com](http://www.pantechproed.com) Tamilnadu | Andra Pradesh | Kerala | Maharashtra



## M2.1 PANTECH PROED PVT LTD - COMPANY PROFILE

PANTECH PROED PVT LTD is an amalgamation of best practices and competencies brought in by leading professionals on some of the most renowned names of the corporate world. Knowledge drives us over the past decades, PANTECH PROED PVT LTD has provided specialized knowledge services to a wide range of industry verticals, this puts us in a unique position where we are able to not only deliver cutting edge solutions but also help build in-house competencies of our clients, be it in the knowledge services domain or a part of our enterprises services.

Our R&D staff with rich and vivid experience work round the clock with innovative skills, updated software technologies and perfect interpersonal learning, which makes this division an unique one. Our researchers utilize advanced search techniques, and carry out research on many search engines and other search tools on the World Wide Web. We undertake all kinds of custom research needs also.

PANTECH PROED PVT LTD holds a very close tie-up with most of the institutions. It's one of the best approved companies in Hyderabad for students In-Plant Training, FDP, Internship Training, Final Year projects, Placement Training Technology and Training.

## M2.2 MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY, HYDERABAD

As an Institute committed to quality education, MIST aims at providing learning with a technology-edge. It endeavors to provide consistent training to its students to help them evolve as competent professionals in the highly competitive world. Right from its inception in 2001, it has been tuning itself to meet this objective.


A new civilization is emerging in our lives. This new civilization brings with it a new way of working. Millions are already tuning their lives to the rhythms of tomorrow.

The technological revolution and the forces of globalization are changing the very functioning of the organizations significantly in recent years.

Success nowadays, requires not only the ability to perform according to the requirements of the position, but also the ability to adjust and get along as a member of a working team. Two critical aspects of preparation for success in the workplace are Education and Training, so that you will have the required knowledge, skills and a high level of self-motivation including initiative and responsibility.

The CSE department was established with B.Tech Program in 2001 with intake of 60 students and this was increased to 120 students in 2006-2007. The Post graduate Program M.Tech with C.S.E specialization was started in 2009 with intake of 18 Students.

Department mission is to make innovative thinking engineers and to produce skilled software engineers. The department of Computer Science and Engineering has progressed with a strong determination to developing competent programs.



PRINCIPAL  
**MAHAVEER**

INSTITUTE OF SCIENCE & TECHNOLOGY  
Sardarjaguda, Hyd-500 005



maintaining in standards. The department has full fledged faculty members with experience in industry and teaching, which leads the students to get employment in the sector.

The department encourages the faculty members and the students to participate paper presentations, seminars, workshops and National and International conferences. The department encourages the faculty members to undertake research activities. The department is equipped with state-of-art laboratories and the computers have sophisticated development software tools. The department provides training to its students in advanced technologies like .NET, FLEX, Data Warehousing, Data Mining tools and Data storage systems as a supplement to the curriculum to enhance the employability of students. The department conducted various workshops with collaboration of JKC, IBM, Infosys, (EMC)2. Our senior faculty members are the members of Computer Society of India, ISTE, IEEE.

### **M.3 MoU between PANTECH PROED PVT LTD and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD:**


After studying the strengths and objectives, PANTECH PROED PVT LTD and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, agreed that they can share the expertise available at both ends for mutual benefits in the field of education, training, scientific and industrial research and enter in MoU. Based on the discussion held among the faculty of the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, certain thematic areas/programmes have been identified for mutual collaboration.

The Memorandum of Understanding envisages the following:

**M.3.1 Collaborative technical and development activities in the fields of education and training are listed below. The following activities will be carried out between PANTECH PROED PVT LTD and the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OF MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.**

- a) Training (Internship, In-Plant Training, Workshop).
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All the above activities will be done.

  
PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005



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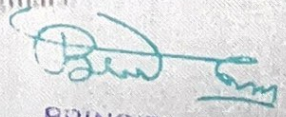
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IN WITNESS OF THE UNDERSIGNED, duly authorized there to, have signed this memorandum of understanding on 03<sup>rd</sup> January 2019 in two originals.



**PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY**  
Bandlaguda, Hyd-500 005



*[Handwritten signature]*  
DIRECTOR MARKETING  
PENTACON FOODS PVT LTD  
HYDRABAD - 500 011



*[Handwritten signature]*  
PRINCIPAL  
MAHAVEER INSTITUTE OF  
SCIENCE AND TECHNOLOGY  
HYDRABAD - 500 005



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*[Handwritten signature]*

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*[Handwritten signature]*

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005





**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD**

**AND**

**CONSCIENCE TECHNOLOGIES, HYDERABAD**

This agreement is made on 15<sup>th</sup> April 2019  
Between

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**AND**

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**PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY**  
Bandlaguda, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra,  
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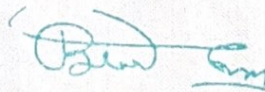
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PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandraquda, Hyd-500 005



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PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005



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*Krishna Reddy*  
MANAGING DIRECTOR  
CONSCIENCE TECHNOLOGIES  
HYDERABAD- 500 060.

*[Signature]*  
PRINCIPAL  
MAHAVEER INSTITUTE OF  
SCIENCE AND TECHNOLOGY,  
HYDERABAD- 500 107.

Witness

Witness

1. *B.V.K. Reddy*

1. *[Signature]*

2. *[Signature]* 2. *[Signature]*

PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Dilsukhnagar, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra,  
Annapurna Function Hall Line,  
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☎ : 040-6012 1199





MEMORANDUM OF UNDERSTANDING  
BETWEEN

MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
AND  
SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED



This Memorandum of Understanding (MOU) establishes a type of partnership between SKILLDZIRE and MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY.

**MISSION:**

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**MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** ensures high standards to educate, enrich and excel the professional Programs, by eminent faculty who endeavors to mold the students into socially responsible professionals through creative team work, innovation and research.

Together, we enter into this Memorandum of Understanding to promote PLACEMENTS, INTERNSHIPS, WORKSHOP'S AND PROJECTS. Accordingly, **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** operating under this MOU agree as follows:

**PURPOSE AND SCOPE:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** describe the intended results or effects that the organizations hope to achieve, and the area(s) that the specific activities will cover.

**Benefits MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**

- o Workshops FDP's
- o Internships
- o Real time projects Industry visits
- o Core job-oriented training
- o Certifications
- o Placements

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square,HITEC City, Hyderabad, Telangana 500081



Who is the target?

Students of

- o 2<sup>nd</sup> year III Semester for workshops.
- o 2<sup>nd</sup> year IV Semester for Industry visits
- o 3<sup>rd</sup> year V Semester for Skill Development Programs
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**TERMS OF UNDERSTANDING:**

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**AUTHORIZATION:**

The signing of this MOU is not a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the objectives stated in the MOU.

On behalf of the organization I represent, I wish to sign this MOU and contribute to its further development.

Your organization:

**MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY**

**Dr.R.Nakkeeran**  
Professor & HOD of CSE

**Dr.A.Nanda Gopal Reddy**  
Professor & HOD of IT

**Dr.B.V Shanker Ram**  
Professor & Principal

Partnering Organization:

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Name: **Srikanth Muppalla**  
Director



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

**PRINCIPAL**  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081



MEMORANDUM OF UNDERSTANDING  
BETWEEN  
PANTECH PROED PVT LTD, HYDERABAD  
AND  
MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD

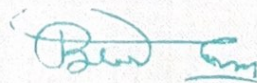
This agreement is made on 03<sup>rd</sup> January 2019  
Between

MI. MEMORANDUM OF UNDERSTANDING

MI.1 This MEMORANDUM OF UNDERSTANDING (MoU) is made and entered into force this 03<sup>rd</sup> January 2019 between PANTECH PROED PVT LTD, having its office at 4<sup>th</sup> floor, Delta Chambers, Behind Chennai Shopping Mall, Ameerpet Hyderabad. (Hereinafter called PANTECH PROED PVT LTD which expression shall where the context so admits include its successors and permitted assigns) as one part.

AND

MI.2. MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, functioning at 03<sup>rd</sup> January 2019, vyasapuri bandlaguda, Hyderabad-500005. (Here in after called COLLEGE, which expression shall where the context so admits includes its successors and permitted assigns) of the other part.



PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005

**Pantech ProEd Private Ltd**

4th Floor, Delta Chambers, Ameerpet Circle, Near J.C. Brothers, Ameerpet, Hyderabad - 500 016. Phone : 040 - 40077960  
E-mail : [hyd@pantechmail.com](mailto:hyd@pantechmail.com) [www.pantechproed.com](http://www.pantechproed.com) Tamilnadu | Andra Pradesh | Kerala | Maharashtra



## M2.1 PANTECH PROED PVT LTD - COMPANY PROFILE

PANTECH PROED PVT LTD is an amalgamation of best practices and competencies brought in by leading professionals on some of the most renowned names of the corporate world. Knowledge drives us over the past decades, PANTECH PROED PVT LTD has provided specialized knowledge services to a wide range of industry verticals, this puts us in a unique position where we are able to not only deliver cutting edge solutions but also help build in-house competencies of our clients, be it in the knowledge services domain or a part of our enterprises services.

Our R&D staff with rich and vivid experience work round the clock with innovative skills, updated software technologies and perfect interpersonal learning, which makes this division an unique one. Our researchers utilize advanced search techniques, and carry out research on many search engines and other search tools on the World Wide Web. We undertake all kinds of custom research needs also.

PANTECH PROED PVT LTD holds a very close tie-up with most of the institutions. It's one of the best approved companies in Hyderabad for students In-Plant Training, FDP, Internship Training, Final Year projects, Placement Training Technology and Training.

## M2.2 MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY, HYDERABAD

As an Institute committed to quality education, MIST aims at providing learning with a technology-edge. It endeavors to provide consistent training to its students to help them evolve as competent professionals in the highly competitive world. Right from its inception in 2001, it has been tuning itself to meet this objective.


A new civilization is emerging in our lives. This new civilization brings with it a new way of working. Millions are already tuning their lives to the rhythms of tomorrow.

The technological revolution and the forces of globalization are changing the very functioning of the organizations significantly in recent years.

Success nowadays, requires not only the ability to perform according to the requirements of the position, but also the ability to adjust and get along as a member of a working team. Two critical aspects of preparation for success in the workplace are Education and Training, so that you will have the required knowledge, skills and a high level of self-motivation including initiative and responsibility.

The CSE department was established with B.Tech Program in 2001 with intake of 60 students and this was increased to 120 students in 2006-2007. The Post graduate Program M.Tech with C.S.E specialization was started in 2009 with intake of 18 Students.

Department mission is to make innovative thinking engineers and to produce skilled software engineers. The department of Computer Science and Engineering has progressed with a strong determination to developing competent programs.



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INSTITUTE OF SCIENCE & TECHNOLOGY  
Sardarjuda, Hyd-500 005



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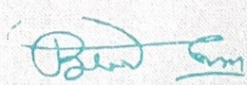
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The Memorandum of Understanding envisages the following:

M.3.1 Collaborative technical and development activities in the fields of education and training are listed below. The following activities will be carried out between PANTECH PROED PVT LTD and the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OF MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.

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PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005



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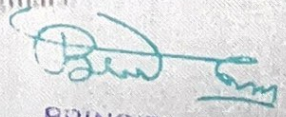
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**M.5 DURATION OF MOU**

The duration of this MOU shall be for 5 years from the date of signing of the MOU. The MOU shall stand renewed automatically unless desired otherwise by either party.

IN WITNESS OF THE UNDERSIGNED, duly authorized there to, have signed this memorandum of understanding on 03<sup>rd</sup> January 2019 in two originals.



**PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY**  
Bandlaguda, Hyd-500 005



*[Handwritten signature]*  
DIRECTOR MARKETING  
PENTACOR PROMED PVT LTD  
HYDRABAD - 500 011



*[Handwritten signature]*  
PRINCIPAL  
MAHAVEER INSTITUTE OF  
SCIENCE AND TECHNOLOGY  
HYDRABAD - 500 005



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PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005





**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD**

**AND**

**CONSCIENCE TECHNOLOGIES, HYDERABAD**

This agreement is made on 15<sup>th</sup> April 2019  
Between

**MI. MEMORANDUM OF UNDERSTANDING**

**MI.1 MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD**, functioning at 15th April 2019 vyasapuri bandlaguda, Hyderabad, 500005. (Here in after called COLLEGE, which expression shall where the context so admits includes its successors and permitted assigns) of the other part.

**AND**

**MI.2.** This MEMORANDUM OF UNDERSTANDING (MoU) is made and entered into force this 15th April 2019 between **CONSCIENCE TECHNOLOGIES**, having its office at 17-83/2C, 3<sup>rd</sup> Floor, Opp. Bank of Maharashtra, Srinagar colony, Dilsukhnagar, Hyderabad, (Hereinafter called **CONSCIENCE TECHNOLOGIES** which expression shall where the context so admits include its successors and permitted assigns) as one part.

**PRINCIPAL**  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra,  
Annapurna Function Hall Line,  
Dilsukhnagar, Hyderabad-500060.  
☎ : 040-6012 1199





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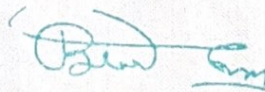
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PRINCIPAL  
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INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005



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PRINCIPAL  
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INSTITUTE OF SCIENCE & TECHNOLOGY  
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IN WITNESS OF THE UNDERSIGNED, duly authorized there to, have signed this memorandum of understanding on 15th April 2019 in two originals.



*Krishna Reddy*  
MANAGING DIRECTOR  
CONSCIENCE TECHNOLOGIES  
HYDERABAD- 500 060.

*[Signature]*  
PRINCIPAL  
MAHAVEER INSTITUTE OF  
SCIENCE AND TECHNOLOGY,  
HYDERABAD- 500 107.

Witness

Witness

1. *B.V.K. Reddy*

1. *[Signature]*

2. *[Signature]* 2. *[Signature]*

PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Dilsukhnagar, Hyd-500 005

Address  
#17-83/2C, 3rd Floor, Opp. Bank of Maharashtra,  
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☎ : 040-6012 1199





MEMORANDUM OF UNDERSTANDING  
BETWEEN

MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
AND  
SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED



This Memorandum of Understanding (MOU) establishes a type of partnership between SKILLDZIRE and MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY.

**MISSION:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** is India's largest Real time learning platform where students get trained by industry experts along with certifications in domain of CSE & IT Department.

**MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** ensures high standards to educate, enrich and excel the professional Programs, by eminent faculty who endeavors to mold the students into socially responsible professionals through creative team work, innovation and research.

Together, we enter into this Memorandum of Understanding to promote PLACEMENTS, INTERNSHIPS, WORKSHOP'S AND PROJECTS. Accordingly, **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** operating under this MOU agree as follows:

**PURPOSE AND SCOPE:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** describe the intended results or effects that the organizations hope to achieve, and the area(s) that the specific activities will cover.

**Benefits MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**

- o Workshops FDP's
- o Internships
- o Real time projects Industry visits
- o Core job-oriented training
- o Certifications
- o Placements

PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005.



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081



Who is the target?

Students of

- o 2<sup>nd</sup> year III Semester for workshops.
- o 2<sup>nd</sup> year IV Semester for Industry visits
- o 3<sup>rd</sup> year V Semester for Skill Development Programs
- o 3<sup>rd</sup> year VI Semester and Summer for Job Oriented training.
- o 4<sup>th</sup> year for Placements and Real time projects.

**TERMS OF UNDERSTANDING:**

The term of this MOU is for a period of 3 years with effect from 06/01/2023. This MOU can be extended upon written mutual agreement. It shall be *reviewed annually* to ensure that it is fulfilling its purpose and to make any necessary revisions.

Either organization may terminate this MOU upon thirty (30) days written notice without penalties or liabilities.

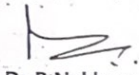
**AUTHORIZATION:**

The signing of this MOU is not a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the objectives stated in the MOU.

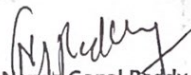
On behalf of the organization I represent, I wish to sign this MOU and contribute to its further development.

Your organization:

**MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY**



Dr. R. Nakkeeran  
Professor & HOD of CSE



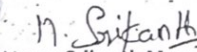
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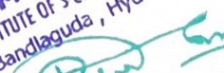


Name: Srikanth Muppalla  
Director

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**



**PRINCIPAL**  
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PANTECH PROED PVT LTD, HYDERABAD  
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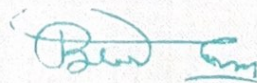
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PRINCIPAL  
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**Pantech ProEd Private Ltd**

4th Floor, Delta Chambers, Ameerpet Circle, Near J.C. Brothers, Ameerpet, Hyderabad - 500 016. Phone : 040 - 40077960  
E-mail : [hyd@pantechmail.com](mailto:hyd@pantechmail.com) [www.pantechproed.com](http://www.pantechproed.com) Tamilnadu | Andra Pradesh | Kerala | Maharashtra



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maintaining in standards. The department has full fledged faculty members with experience in industry and teaching, which leads the students to get employment in the sector.

The department encourages the faculty members and the students to participate paper presentations, seminars, workshops and National and International conferences. The department encourages the faculty members to undertake research activities. The department is equipped with state-of-art laboratories and the computers have sophisticated development software tools. The department provides training to its students in advanced technologies like .NET, FLEX, Data Warehousing, Data Mining tools and Data storage systems as a supplement to the curriculum to enhance the employability of students. The department conducted various workshops with collaboration of JKC, IBM, Infosys, (EMC)2. Our senior faculty members are the members of Computer Society of India, ISTE, IEEE.

### M.3 MoU between PANTECH PROED PVT LTD and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD:

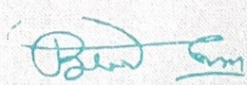
After studying the strengths and objectives, PANTECH PROED PVT LTD and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, agreed that they can share the expertise available at both ends for mutual benefits in the field of education, training, scientific and industrial research and enter in MoU. Based on the discussion held among the faculty of the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, certain thematic areas/programmes have been identified for mutual collaboration.

The Memorandum of Understanding envisages the following:

M.3.1 Collaborative technical and development activities in the fields of education and training are listed below. The following activities will be carried out between PANTECH PROED PVT LTD and the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OF MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.

- a) Training (Internship, In-Plant Training, Workshop).
- b) Lab Equipment
- c) Student projects.
- d) Placement Guidance
- e) Seminars on recent developments in the field of Software.
- f) Imparting on training to faculty on selected areas Providing opportunity to students to work with the technology available at PANTECH PROED PVT LTD
- g) Resource Sharing.
- h) To do research and development work
- i) Consultancy work

All the above activities will be done.

  
PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005



... mutual visits and project work for the students to be carried out at PANTECH PROED PVT LTD. if the training projects and infra-structure facilities available at PANTECH PROED PVT LTD. fits the requirement of the students of MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.

M.3.2 PANTECH PROED PVT LTD and MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD shall share facilities such as computers, sophistical equipment, instrument etc and library facilities according to rules and regulations of each institution.

M.3.4 Exchange programme enabling the faculty members of the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING of MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD to work for short periods in PANTECH PROED PVT LTD and the faculty of PANTECH PROED PVT LTD to serve as visiting faculty for guidance in the development program of mutual interest and conduct of intensive course.

M.3.5 Design and Development of curriculum in new areas of Science and Technology particularly with long & short term courses which will benefit the faculty members of the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING of MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.

M.3.6 Organizing of conferences, Seminars, Symposia, Workshop and refresher courses for the students as collaborative effort at either PANTECH PROED PVT LTD or at MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD.

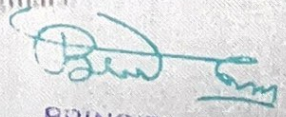
**M.4 AMENDMENTS**

No amendment or modification of the MOU shall be valid unless the same is made in writing by both the parties or their authorized representatives and specifically stating the same to be an amendment of this MOU. The modification/changes shall be effective from the date on which they are made or executed, unless otherwise agree to.

**M.5 DURATION OF MOU**

The duration of this MOU shall be for 5 years from the date of signing of the MOU. The MOU shall stand renewed automatically unless desired otherwise by either party.

IN WITNESS OF THE UNDERSIGNED, duly authorized there to, have signed this memorandum of understanding on 03<sup>rd</sup> January 2019 in two originals.



**PRINCIPAL  
MAHAVEER  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005**



*[Handwritten signature]*  
DIRECTOR MARKETING  
PENTACOR PROMED PVT LTD  
HYDRABAD - 500 011



*[Handwritten signature]*  
PRINCIPAL  
MAHAVEER INSTITUTE OF  
SCIENCE AND TECHNOLOGY  
HYDRABAD - 500 005



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PRINCIPAL  
**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Bandlaguda, Hyd-500 005





CANTER Technologies Pvt. Ltd  
Block 'A'- 4th Floor, Eashwar Tower,  
above Mare Supermarket,  
IS Sadan 'X' Road, Santhoshnagar,  
Hyderabad - 500 059.  
Ph. : +91 40 6557 3333,  
Cell : +91 89782 71111  
E-mail : santhoshnagar@cantercadd.com  
Website : www.cantercadd.com

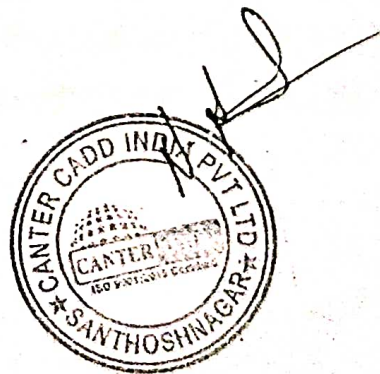
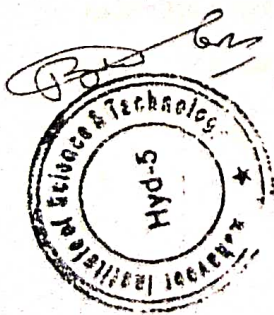
CSE |

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is made at HYDERABAD, Bandlaguda on this 16-02-2023, between Department of Electrical & Electronics Engineering, Mahaveer Institute Of Science and Technology approved by All India Council for Technical Education (AICTE) and affiliated to Jawaharlal Nehru Technological University, Hyderabad and situated at "Vyasapuri, Bandlaguda, Hyderabad-500005 , Telangana" (here in after referred to as "MIST", which expression shall unless repugnant to the context or meaning there of, include its successor-in-interest and permitted assigns)

AND

CANTER CADD INDIA PVT.LTD., 4<sup>th</sup> floor, Diamond Corner, Gachibowli, Hyderabad-500 008, having its local branches in Hanamkonda and Warangal, Telangana (hereinafter referred to as "CANTER CADD", which expression shall unless repugnant to the context or meaning thereof, include its successor-in-Interest and permitted assigns)



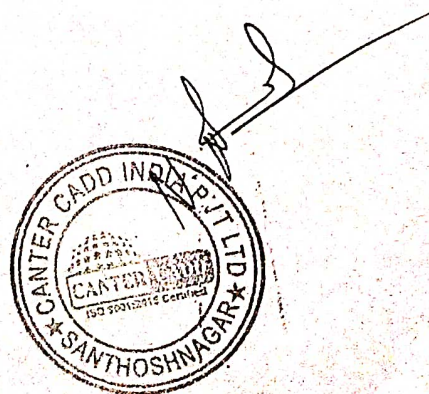
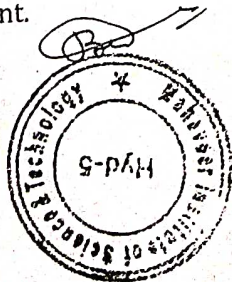




MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
(An ISO 9001 : 2008 Certified Institution)  
Vyasapuri, Bandlaguda, Post:Keshavgiri, Hyderabad-500 005, AP INDIA  
Tel: 040-24455001,002,004 ,Fax: 040-24455003  
E-mail: principal.mahaveer@gmail.com Website: [www.mist.ac.in](http://www.mist.ac.in)

### Objectives:

1. This MoU is signed with the objectives of furthering industry-academic relationship for mutual benefit, building fruitful and mutual relations, and of proposing to offer programs of mutual interest as agreed by the parties.
2. MIST intend to organize Technical seminars, workshops, conferences and Training Programmes, in association with the CANTER CADD to provide the Civil Engineering community with the latest developments in research and developmentsof construction industry.
3. CANTER CADD in association with MIST shall arrange for industrial visits, Students Project collaboration, Internship, Industry Offered Courses, seminars and guest lecturers from Industry professionals/HR/Placement Agencies/Technology vendors to interface the students with global industry trends.
4. CANTER CADD and MIST shall together initiate research and development projects and shall carry out collaborative research in Software and construction industry.
5. MIST accepts to appoint and extend faculty, Laboratory and other Infrastructure support towards the activities of CANTER CADD.
6. There will be up to 60 students for training every academic year and an academic calendar that incorporates the possible dates for the training can be evolved with mutual consent.







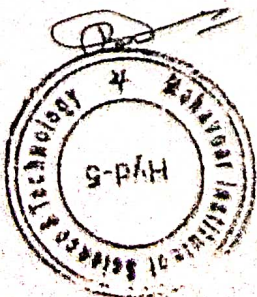
NOW THIS MEMORANDUM OF UNDERSTANDING (MOU) WITNESSETH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

The MIST shall use the assistance, sponsorship or support provided by CANTER CADL only for the purpose expressly stated in the MoU and not for any other purpose, unless otherwise agreed upon by the parties. Further, CANTER CADD may sponsor symposiums, workshops, technical presentations etc., to be conducted at the college, at its own discretion.

#### VALIDITY

- The agreement is valid for a period of Three years with effect from the date of signing of the agreement and may be renewed after that period.
- Both parties shall meet and finalize about renewal of the Memorandum two months in advance before the expiry of the said period.
- Both Parties shall have the right to cancel the Memorandum by informing one month in advance.

IN WITNESS THEREOF the authorized signatories of CANTER CADD and MIST have signed this Memorandum of Understanding on the day, month and year first above written.





For MIST-Department of EEE,  
Mahaveer Institute Of Science and  
Technology

Signature:



Name: Dr.B.V.Sanker Ram  
Designation: PRINCIPAL, MIST

Witness: 1

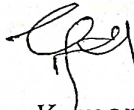
Signature:



Name: Dr.M.Rajendar Reddy  
Designation : Professor & Head  
Department of EEE

Witness: 2

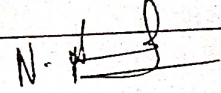
Signature:



Name: G.Prem Kumar Reddy  
Designation: Associate Professor,  
Department of EEE

For CANTER CADD INDIA  
PVT.LTD

Signature:



Name: N. PRUTHVI KUMAR  
Designation: MANAGER

Witness: 1

Signature:



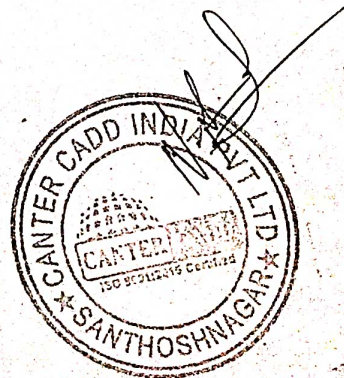
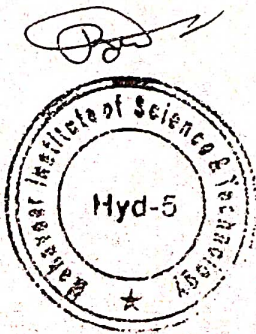
Name: NARASH  
Designation : ELECTRICAL FACILITATOR

Witness: 2

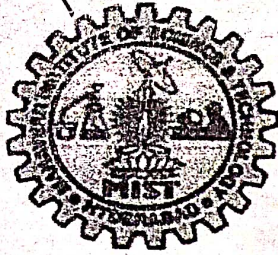
Signature:



Name: M.D. MAAZ  
Designation : MECHANICAL FACILITATOR







MEMORANDUM OF UNDERSTANDING  
BETWEEN

MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY  
AND  
SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED



This Memorandum of Understanding (MOU) establishes a type of partnership between **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**.

**MISSION:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** is India's largest Real time learning platform where students get trained by industry experts along with certifications in domain of Electrical and Electronics Engineering Department.

**MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** ensures high standards to educate, enrich and excel the professional Programs, by eminent faculty who endeavors to mold the students into socially responsible professionals through creative team work, innovation and research.

Together, we enter into this Memorandum of Understanding to promote PLACEMENTS, INTERNSHIPS, WORKSHOP'S AND PROJECTS. Accordingly, **SKILLDZIRE** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** operating under this MOU agree as follows:

**PURPOSE AND SCOPE:**

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED** and **MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY** describe the intended results or effects that the organizations hope to achieve, and the area(s) that the specific activities will cover.

**Benefits MAHAVEER INSTITUTE OF SCIENCE TECHNOLOGY**

- Workshops FDP's
- Internships
- Real time projects Industry visits
- Core job-oriented training
- Certifications
- Placements

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081



is the target?

Students of

- o 2<sup>nd</sup> year III Semester for workshops.
- o 2<sup>nd</sup> year IV Semester for Industry visits
- o 3<sup>rd</sup> year V Semester for Skill Development Programs
- o 3<sup>rd</sup> year VI Semester and Summer for Job Oriented training.
- o 4<sup>th</sup> year for Placements and Real time projects.

### TERMS OF UNDERSTANDING:

The term of this MOU is for a period of 3 years with effect from 06/01/2023. This MOU can be extended upon written mutual agreement. It shall be *reviewed annually* to ensure that it is fulfilling its purpose and to make any necessary revisions.

Either organization may terminate this MOU upon thirty (30) days written notice without penalties or liabilities.

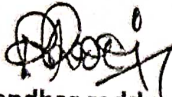
### AUTHORIZATION:

The signing of this MOU is not a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the objectives stated in the MOU.

On behalf of the organization I represent, I wish to sign this MOU and contribute to its further development.

Your organization:

**MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY**



**Dr. M. Rajendhar reddy**  
Professor & HOD of EEE



**Dr. B. V. Shanker Ram**  
Professor & Principal

Partnering Organization:

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**



Name: **Srikanth Muppala**  
Director

**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**



**SKILLDZIRE TECHNOLOGIES PRIVATE LIMITED**

Bizness Square, HITEC City, Hyderabad, Telangana 500081

☎ 8010692530

✉ info@skilldzire.com

🌐 www.skilldzire.com





ESTD : 2001

MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY

Approved by AICTE, Affiliated to JNTU, Hyderabad. Vyasapuri,  
Bandlaguda, Post: Keshavgi, Hyderabad-500005



**ISHRAE**

Indian Society of Heating Refrigerating and Air Conditioning Engineers

**ISHRAE MIST STUDENT CHAPTER**  
**Department of Mechanical Engineering**  
**Participated in**  
**Technical Seminar**

**ISHRAE TC E-111 UVGI Solutions to enhance**  
**wellness, energy conservation and IAQ**



## Participants

- Dr. V. V. PRATHIBHA BHARATHI (ISHARE CO-ORDINATOR)
- P SAIKIRAN
- B.VAMSHI
- S ROHITH
- G SAHITH
- D HARISH



**ISHRAE**  
Deccan Chapter



### Technical Seminar

## ISHRAE TC E-111 UVGI Solutions to enhance wellness, energy conservation and IAQ



**Eminent Speaker**  
**Sathish Iyengar**

- > UVGI
- Position paper Of ISHRAE On UVGI
- Science Of UVGI and its importance in IAQ
- Ideal specifications of UVGI for various application
- Calculations to derive at the UVGI specifications (Hands-On activities)



**On**  
**Tuesday 22 Nov 2022**  
**6:30 pm onwards**  
**At**  
**The Golkonda Hotel**  
**Masab Tank, Hyderabad.**

Supported by



YOUTH ISHRAE

FOR DETAILS CALL: +91 888 666 8498

YOUTH CHAIR: MUKESH MANCHANDA

PRESIDENT: BASHYAM KALYANRAMAN | SECRETARY: PRK SUNDAR | PROGRAM CHAIR: MOHAMMED IMRAM

ISHRAE OFFICE: SRI APARTMENTS, 201, 2ND FLOOR, OPP. ASHISH GARDENS, BOWENPALLY, SEC-BAD, TELANGANA.

Society Year Partner





Corporate Partners






Supporting Organisation




Email: [ishraehc@gmail.com](mailto:ishraehc@gmail.com)

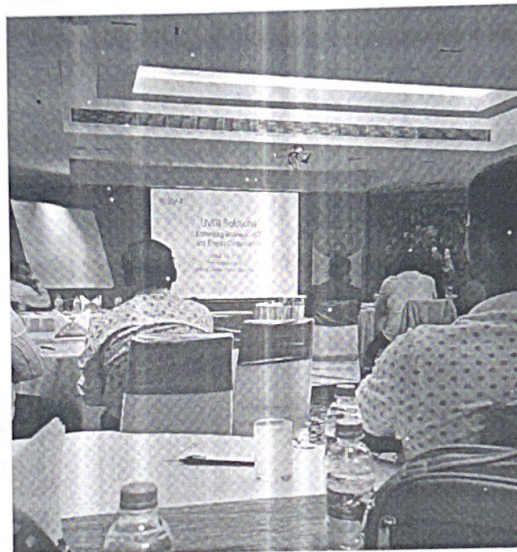


## UVGI Solutions Enhancing Wellness, IAQ And Energy Conservations

ISHRAE TG-E111 22nd November, 2022

ISHRAE, Deccan Chapter Workshop

### Topics covered



- UVGI can Deactivate any Microbes known to science

### ➤ Difference Between Water & Air UVGI

- UV irradiance attenuation occurs in water at a very short distance at - 150mm. This requires high power lamps and closely packed design.
- This presentation is focusing only on hvac design involving UVGI:-
  1. SURFACE DISINFECTION [e.g. AHU coil AHU & duct inner surfaces etc.]
  2. AIR STREAM DISINFECTION



## • UVGI DISINFECTION TO INACTIVATE MICROBES

UV light the wavelength range from 200 to 300 nm has a disinfecting effect. It is absorbed by the DNA of microorganisms, destroys their structure and inactivates living cells. In seconds the UV-C (UVGI) radiation renders viruses, bacteria, yeasts and fungi harmless. If the irradiation intensity is sufficiently high, UV disinfection is a reliable and environmentally friendly method, as the addition of chemicals is not necessary.

- UVGI can react with any microbe known to science like Tuberculosis, coronavirus, influenza, legionella, hepatitis, SARS, HIV, etc.
- UVGI effectiveness depends on 'fluence' or 'dose' delivered to the microorganism  
 $D_{UV} (\mu J / cm^2) = 1 (\mu W / cm^2) \times t (sec)$

The survival fraction (S) of a microbial population exposed to UVGI is an exponential function of dose  
 $S = e^{-kD_{UV}}$

K is "species-dependent" deactivation rate constant ( $cm^2/\mu J$ )

- Establishing a "k" value is a complex process.

### UVGI Lamp construction

- It contains inert noble gas coated Tungsten filaments for electron emission and less than 5 mg mercury
- Lamp is Made of Quartz (or) soft glass-which transmits UV.
- When power is ON, the mercury evaporates and get excited ;emit 85% energy as 253.7nm UVC

- **UVGI Glass Material consists of Quartz glass and soft glass could be used for hvac disinfection application.**

### > Lamp types

In this lamp there are 3 types :-

#### 1. Low pressure lamp

- In this lamp Narrow- band, 253.7nm and output efficiency is 31.33%

#### 2. Medium pressure lamp

- In this lamp broad -band ,UVB/UVC, 265 nm and output efficiency is less than 30%

#### 3. Led UVC

- In this led UVC output ,280/265 nm and lot of research in progress



- UVGI APPLICATION IN HVAC SURFACE AND AIR DISINFECTION

Wet, dark and dust /dirt surfaces are the main source /breeding grounds for fungi and other microbes. Relatively simpler application of UVGI : long exposure duration makes it highly effective

Fresh air, recirculated air (from people, contaminated surfaces in its path etc.) are the sources of microbes. Individual zones (hospital rooms) may opt for recirculation units for air disinfection.

- UVGI DEVICES

UVGI devices can be fixed OR Mobile to the needs

FIXED:-UPPER ROOM UVGI

- A UV lamp with reflector with a set of louvers in front to make the UV beam parallel.
- Mounted more than 7' above floor, high UV intensity in the upper zone. eliminate microbes in air, the rest of room safe
- Up to 90% reduction in microbes in air possible; highly effective against air borne infection

MOBILE:-UV Lamps on wheels

- A set of UV lamps with reflectors mounted on a carriage on wheels
- To be operated in a space without any person around
- Effective for surface as well as air disinfection
- Ideal for disinfection of a large space and for operation theaters for disinfection between surgeries

- UVGI In AHU is highly effective in biofilm elimination.
- UVGI Safety could be harmful and cause eye /skin irritation.
- USA Hospitals use portable In-room Disinfection devices effectively to "disinfect and reuse" N95 Masks , during COVID



AE

- IN UVGI system maintenance
  - AHU "asset record" should be updated with UVGI Information:

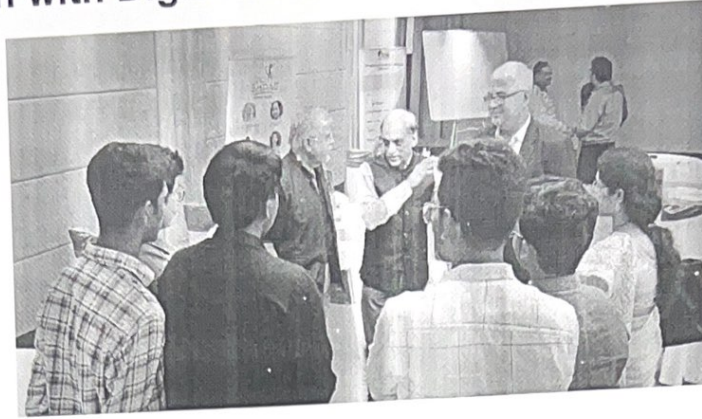
Make, model, type (standard/high output etc), length, qty, design intensity at EoL etc

Dust on UVGI could be wiped with a soft cloth (wetted in alcohol) - without touching with our fingers.

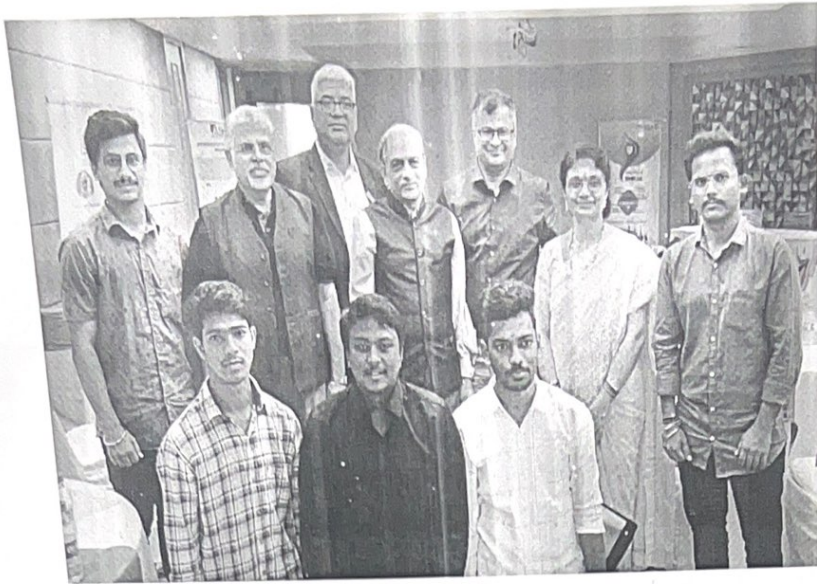


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## Interaction with Dignitaries











## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology, 8F54+7G2, beside  
Aurora's Scientific, Technological & Research Academy, Vyasa  
Puri, Chandrayangutta, Hyderabad, Telangana 500005, India  
Lat 17.308135°

Long 78.456408°  
03/12/22 10:50 AM GMT +05:30





## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology, 8F54+7G2, beside  
Aurora's Scientific, Technological & Research Academy, Vyasa  
Puri, Chandrayangutta, Hyderabad, Telangana 500005, India  
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03/12/22 10:50 AM GMT +05:30





**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Approved by AICTE, Affiliated to JNTU, Hyderabad  
ESTD. 2001 Vyasa Puri, Chandrayangutta Post, Keshavnagar, Hyderabad - 500005

DEPARTMENT OF MECHANICAL ENGINEERING  
INDUSTRIAL VISIT  
TO  
BHEL  
HYDERABAD  
ON  
03 DECEMBER 2022



GPS Map Camera




## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology,  
8F54+7G2, beside Aurora's Scientific, Technological  
& Research Academy, Vyasa Puri, Chandrayangutta,  
Hyderabad, Telangana 500005, India

Lat 17.308136°  
Long 78.456328°  
03/12/22 10:49 AM GMT +05:30





 GPS Map Camera



## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology, 8F54+7G2, beside  
Aurora's Scientific, Technological & Research Academy, Vyasa  
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**MAHAVEER**  
INSTITUTE OF SCIENCE & TECHNOLOGY


Approved by AICTE, Affiliated to JNTU, Hyderabad.  
ESTD: 2001 VyasaPuri, Bandlaguda, Post: Keshavnagar, Hyderabad - 500005

DEPARTMENT OF MECHANICAL ENGINEERING  
INDUSTRIAL VISIT



TO  
BHEL  
HYDERABAD  
ON  
03 DECEMBER 2022



 GPS Map Camera



## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology,  
8F54+7G2, beside Aurora's Scientific, Technological  
& Research Academy, Vyasa Puri, Chandrayangutta,  
Hyderabad, Telangana 500005, India


Lat 17.308091°

Long 78.45627°

03/12/22 10:48 AM GMT +05:30





 GPS Map Camera



Google

## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology, 8F54+7G2, beside Aurora's Scientific, Technological & Research Academy, Vyasa Puri, Chandrayangutta, Hyderabad, Telangana 500005, India  
Lat 17.308106°

Long 78.45634°  
03/12/22 10:55 AM GMT +05:30





GPS Map Camera



## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology,  
8F54+7G2, beside Aurora's Scientific, Technological  
& Research Academy, Vyasa Puri, Chandrayangutta,  
Hyderabad, Telangana 500005, India

Lat 17.308136°

Long 78.456328°

03/12/22 10:49 AM GMT +05:30





GPS Map Camera



## Hyderabad, Telangana, India


Mahaveer Institute of Science and Technology, 8F54+7G2, beside  
Aurora's Scientific, Technological & Research Academy, Vyasa  
Puri, Chandrayangutta, Hyderabad, Telangana 500005, India  
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Long 78.456408°

03/12/22 10:50 AM GMT +05:30





 GPS Map Camera



## Hyderabad, Telangana, India

Mahaveer Institute of Science and Technology, 8F54+7G2, beside  
Aurora's Scientific, Technological & Research Academy, Vyasa  
Puri, Chandrayangutta, Hyderabad, Telangana 500005, India

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**MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY**  
VYASAPURI, BANDLAGUDA, POST: KESHAVGIRI, HYDERABAD, TELANGANA.

### FDP/WORKSHOPS/SEMINARS CONDUCTED IN DEPARTMENT

S.No.	EVENT	DATE	TITLE
1.	Workshop	28 <sup>th</sup> & 29 <sup>th</sup> Feb 2020	A Two Day National Workshop on Advances in Mechanical Engineering.
2.	FDP	26 <sup>th</sup> June 2020	Online FDP on Design Services in Advanced Manufacturing.
3.	FDP	Oct 21	One Day Online Workshop on Fusion 360 by Autodesk.
4.	Seminar	Nov 2021	Seminar on HVAC by KG Mech Pvt. Ltd.
5.	Seminar	May 12 <sup>th</sup> 2022	Opening of ISHRAE Deccan Student chapter and seminar
6.	Seminar	July 07 <sup>th</sup> 2022	Tech talk on over view of insulation in HVAC
7.	Seminar	Dec 27 <sup>th</sup> 2022	Technical seminar on professional growth in HVAC&R industry by ISHRAE
8.	Workshop	Dec 29 <sup>th</sup> 2022	One day workshop on Heat Load Estimation in HVAC by ACTION ENGINEERS Pvt. Ltd

### Department of Mechanical Engineering

