



MOU

IGET

Innovations

Lab

MOU

INDIA NON JUDICIAL
Government of Rajasthan

₹650
e-Stamp

सत्यमेव जयते

Certificate No.	: IN-RJ93434926418582V
Certificate Issued Date	: 16 May 2023 10:43 AM
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Unique Doc. Reference	: SUHN RJRJ3 15960475960002970685V
Purchased by	: SKIT MANAGEMENT AND GRAMOTHAN JAIPUR
Description of Document	: Article 5(g) Simple Agreement
Property Description	: RAMNAGARIA, JAGATPURA, JAIPUR, RAJASTHAN-302017
Consideration Price (Rs.)	: 0 (Zero)
First Party	: SKIT MANAGEMENT AND GRAMOTHAN, JAIPUR
Second Party	: IGET LAB IGET INNOVATION LAB JAIPUR
Stamp Duty Paid By	: SKIT MANAGEMENT AND GRAMOTHAN JAIPUR
Stamp Duty Payable (Rs.)	: 500 (Five Hundred only)
Surcharge for Infrastructure Development (Rs.)	: 50 (Fifty only)
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Stamp Duty Amount (Rs.)	: 600 (Six Hundred And Fifty only)

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NOTARY
GOVERNMENT SHRI RAMA
AGENCY
JAIPUR (RAJ)
Paper No. 14234
Expires on
02-07-2023
GOVT. OF INDIA

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**MEMORANDUM OF UNDERSTANDING
FOR
INSTITUTIONAL COLLABORATION
BETWEEN**

**SKIT-SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT &
GRAMOTHAN, JAIPUR**

And

IGET LAB-IGET INNOVATION LAB, JAIPUR

**MEMORANDUM OF UNDERSTANDING FOR INSTITUTIONAL COLLABORATION
BETWEEN**

**SKIT-SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT &
GRAMOTHAN, JAIPUR**

AND

IGET LAB-IGET INNOVATION LAB, JAIPUR

ATTESTED:
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JAIPUR (RAJ.)
20/07/2023

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[Signature]

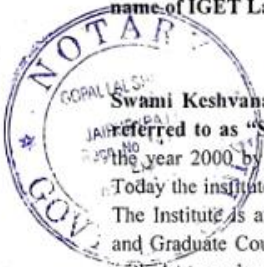
The Memorandum of understanding (hereinafter referred to as "MoU") entered into on this Friday of 10th May 2023, by and between:

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, is an Engineering College, Affiliated to Rajasthan Technical University Kota, having its office at Ramnagar, Jagatpura, Jaipur, Rajasthan-302017

WHERE AS

IGET Innovation Lab is A partnership firm incorporated at IGET INDIA 34/20, First Floor, Near Power House, Haldighati Marg, Pratap Nagar, Jaipur-302033 that supports students by funding their training and learning engaged in Research and design & supports entrepreneurs by funding for their start-ups by the respective companies in the name of IGET Labs.

&



Swami Keshvanand Institute of Technology, Management & Gramothan (Here in after referred to as "SKIT") inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning and Gramothan. Today the institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management. The Institute is accredited by NAAC with A++ grade and is ranked No.1 Institute by Rajasthan Technical University, Kota for last five consecutive years. The UG Programme of Institute namely Computer science & Engineering, Information Technology, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering are continuously accredited and re-accredited by National Board of Accreditation since 2009.

IGET Innovation Lab is A partnership firm incorporated at IGET INDIA 34/20, First Floor, Near Power House, Haldighati Marg, Pratap Nagar, Jaipur-302033 that supports students by funding their training and learning engaged in Research and design & supports entrepreneurs by funding for their start-ups by the respective companies in the name of IGET Labs.

WHEREIN

Both parties agree to collaborate on their respective expertise area of IGET Labs and SKIT in research, innovation, design, product development

HENCEFORTH

Both parties agree to nominate Officers/Technical experts/Faculties and students for collaboration.

Both parties shall identify Joint development of Innovative, path breaking product development for skill development & Commercial exploitation. This will:

- **ENABLE** mutual benefit
- **FOSTER** industry-institute interface
- **SET** the benchmark for long-term partnerships on innovative projects

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- **STRENGTHEN** the innovative capacities of the institute and advance industry-driven research & innovation.
- **PROVIDE** institution access to industrial environments for applied and problem-based research activities.
- **SHARE** collaborative research, innovations, financial benefits, product sale profit, technology transfer benefits, and Brochures/Flyers, Reading/Course Materials, Programme Information etc., and prominently display the same at prominent places such as Library, Notice Board, Website etc.
- **ENHANCING** industry-academia interface and aligning training, capacity building, and skill development to meet the industry-specific requirements and for better employability.
- **ASSIST** each other in the "Training the Trainers" Programme, Entrepreneurship Development Program, Standardization of Courses and Certification Programmes, Testing Protocols, Commercialization of R&D activities, etc.
- **INVITE** each other's experts, faculty members, trainees, and students to participate in various capacity-building programs, organized jointly or individually.
- **JOINTLY** organize interactive sessions, workshops, refresher courses, round table discussions, and conferences, whenever and wherever feasible.



SCOPE OF MOU

The scope of this MOU is for a period of nine years and is to develop an innovative technology solution jointly by SKIT & IGET Lab.

IGET Lab Scope

IGET Lab shall help the institution in the following ways:

- Shall provide free practical training to the selected students of Computer science & Engineering, Information Technology, Electronics and Communication Engineering, Electrical Engineering, and Mechanical Engineering disciplines.
- Shall provide opportunities for jobs to the students of SKIT.
- Shall sponsor the research projects financially to the extent decided at the time of project approval.
- Shall deliver expert lectures at the Institute.
- Shall provide the cost involved for product development (all types of expenses like purchasing of raw materials, consumable items, equipment, work involving outsourcing etc.)
- Shall provide technical and financial support for engineered model into the developed industrial grade product.

SKIT SCOPE

- Shall engage its students for hands-on working industry grade product, training, research development, and placement etc.
- Shall deploy its technical and human resources for prototype development, software development, documentation & IPR protection of the projects developed excluding IPR cost.
- Basic facilities from Mechanical, Electrical, and Electronics labs.
- Requirement of basic tools and devices like lathe machine, drill machine, motor controllers, robotic and microprocessors controllers.
- A team of faculty and students from the Mechanical Engineering, Electrical Engineering, and Electronics & Communication Departments can be engaged for the development of product(s).
- Technical advancement support from SKIT team
- New innovation (patent etc.) and research paper publication rights will remain with SKIT & IGET

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REVIEW & MONITORING

-Progress of the projects undertaken shall be reviewed on a quarterly basis by the review team Supervisor nominated by IGET Lab, Director, Director(Academics), Principal, Registrar, Dean (Academics), Advisor (Incubation Cell), V.P.-IIC, Coordinator (Incubation Cell).

PROFIT SHARING

The Profit-sharing of IGET Innovation Lab and SKIT will be 70% and 30%.

DURATION OF PRODUCT DEVELOPMENT PROCESS

The time frame for the product development,an "industrial and domestic dishwasher" is decided of six months.

IPR RIGHTS

-IPR of the technology thus developed shall be governed by SKIT & IGET Lab jointly.

-SKIT has approved for MSME Host Institute to get Government grants/approval where collaboration with IGET Lab shall play an important role.

-Technology thus developed shall be commercially exploited first by IGET Lab & right of refusal shall remain with them, otherwise technology shall be transferred to third parties on mutually agreed terms.

-However, IGET Lab shall pay only royalty fees while other parties shall pay a lump sum plus royalty which shall be shared both by IGET Lab and SKIT & development team members.

ARBITRATION

SKIT Principal/IGET Lab Managing Director shall be the sole arbitrator for any dispute arising during the technology development phase. The rights have been reserved by both parties to modify this MOU according to product by product.

INITIAL PRODUCT IDENTIFIED

Product development, an industrial and domestic dishwasher.

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IN WITNESS WHEREAS WHEREOF, the institutions hereto have offered signatures:

For: SKIT Swami Keshvanand

Institute of Technology,

Management & Gramothan, Jaipur

For: IGET Innovation Lab, Jaipur



Signature: [Signature]
Name: Dr. RAMESH KUMAR PACHAR
Date:-

Signature: Manoj Gattani
Name: Manoj Kumar Gattani
Date:
Seal:



Witness:
Signature: [Signature]
Name: Dr. Rajendra Singh
Designation:

Signature: [Signature]
Name: Ajay Dhanotriya
Designation: Head - Incubation Cell

Signature: [Signature]
Name: Subhrajit Gupta
Designation: IP incubation
(IC) committee

Signature: [Signature]
Name: Mool Singh
Designation:

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30/7/2023

List of Activities

<u>S.no.</u>	<u>Name of Activity</u>	<u>Date</u>	<u>Duration</u>
1.	Workshop on Electric Vehicles	25-30 April 2024	One week

Report on the Introduction to E-Vehicles (2W) Workshop at SKIT College organized by IGET Innovations Lab

Overview:

- Event: Introduction to E-Vehicles (2W).
- Date: 25th April to 30th April 2024
- Venue: Swami Keshvanand Institute of Technology, Management Jaipur.
- Organized by: IGET Innovations Lab, Sitapura Jaipur.
- Target Audience: Mechanical Engineering Students (3rd Semester)
- Duration: 5 days
- Objectives:

The primary objective of the workshop was to introduce students to the foundational principles of E-Vehicles with an emphasis on extensive practical training with a diverse range of E-Vehicle parts.

By providing immersive, hands-on experiences, the workshop aimed to deepen student's understanding of essential concepts and ignite a passionate interest in these rapidly advancing fields.

Additionally, it endeavored to equip students with the skills and knowledge necessary to pursue further studies and careers in E-Vehicles.

Workshop Overview: E-Vehicle (2W)

1. Introduction to Core Concepts:

- **Understanding Fundamentals:** This workshop provided a comprehensive overview of the basic principles of E-Vehicles, including key components and integration techniques.

This foundational knowledge set the stage

for deeper exploration and practical application.

- **Conceptual Clarity:** We broke down complex topics into digestible segments, ensuring that students grasped essential theories and terminologies relevant to these fields. Clear explanations and simplified examples helped them make advanced concepts easier to understand.

2. Hands-On Experience:

- **Practical Application:** We provided students a platform to work directly with E-Vehicles. They test components, design & assembled parts, and solve real problems, which helped them understand the theory better.
- **Interactive Learning:** We also held interactive sessions where students could experiment with hardware and software. They applied theoretical concepts in real life scenarios, which helped them to learn better and gain confidence in using technology.

3. Skill Development:

- **Technical Skills:** The workshop equipped students with practical skills in building and designing E-Vehicles sub-systems, working with sensors and actuators, .These skills were essential for their future studies and careers in technology.
- **Problem-Solving Abilities:** Enhanced student's problem-solving and critical-thinking skills by challenging them with hands-on projects and real-world scenarios that required innovative solutions. This approach fostered creativity and analytical thinking.

4. Fostering Interest and Engagement:

- **Stimulating Curiosity:** We also helped students to ignite and nurture an interest in E-Vehicles by showcasing the exciting possibilities and applications of these technologies across various industries. Highlighted real-world examples to help students understand the relevance and potential impact of their learning.
- **Career Awareness:** We provided insights into career paths and

opportunities in E-Vehicles inspiring students to explore further education and career prospects in these dynamic fields.

5. Encouraging Collaboration and Teamwork:

- **Group Activities:** We promoted teamwork and collaboration through group projects and collaborative problem-solving tasks, which helped students, develop interpersonal skills and learn from their peers.

They together worked in teams simulated real-world engineering environments.

6. Evaluating Understanding:

- **Assessments:** We conducted assessments and evaluations to measure student's understanding and the skills gained during the workshop.

This helped them identify areas for improvement and ensured that learning objectives were met.

Instructors:

Our Instructors are well trained and have a deepened knowledge with Day-to-Day changes happening in E-Vehicle technology.

- | | |
|-----------------------------|-----------------------------------|
| ➤ Dr. Manoj Gatatni | CEO, TechnoS Centre of Excellence |
| ➤ Mr. Saurabh Dev | E-Vehicle Trainer and Designer |
| ➤ Mr. Gordhan Gurjar | Hardware and Hands-on Expert |

Workshop Details:

Day wise detailed view of topics covered during the workshop.

Sr.No.	Date	Theoretical Topic Covered	Practical Done by Students
1	25-04/2024	Basic Introduction of EV market, need, requirements, Pros and Cons. Various Types of EV, Various Components of EV	
2	26/04/2024	Various Types of Battery, How to make a battery pack, How to Test/Check a Battery or Battery Pack, Various Parts of Battery Pack (Batteries, BMS (BPB+BMB), Wires, Connectors), Various Techniques to make & Design a Battery Pack.	How to check a Battery Physical by reading its BAR CODE & NUMBERS
3	27/04/2024	Various Types of Motors, Basic of Motor working, How to choose a Motor for EV, Motor Controller Basic, Hall Sensor- its Testing, Various points of uses in EV, Bake sensor- how these works.	Testing of Batteries /Cells using various methods.
4	28/04/2024	Various Types of Throttles, How to choose a throttle, Government Norms on Throttle, Various Norms/Regulations on EV-in India, World Wide, How to make your own E-Bike	Testing of Motor, various Sensors used in E-Cycle
5	29/04/2024	Assembly of Battery Pack and Connection of BMS with Battery Pack	Practical – Hands-on
6	30/04/2024	Assembly of an E-Bike Exam-for Validation	Practical – Hands-on

During this duration students comes to familiar with following High-End-Equipments of industrial Standard:

- 1) Hioki -- Digital Multimeter
- 2) Hioki -- Battery Hi Tester

- 3) Hioki -- Battery Capacity Tester
- 4) Hioki -- Battery Impedance Tester
- 5) Hioki -- Power Analyzer – (4Channel)

Materials Provided:

Official PPTs were provided to students for better guidance throughout the workshop.

Outcomes:

- Enhanced student understanding with E-Vehicles.
- Achieved successful completion of hands-on projects (E-Cycle) by student groups, resulting in a functional E-Cycle.
- Stimulated increased interest in pursuing advanced courses and careers in E-Vehicles, as evidenced by positive feedback and heightened engagement throughout the workshop.

Feedback:

- The workshop garnered highly positive feedback from the students, who appreciated the balance of theoretical knowledge and practical hands-on experience.
- The collaboration between TCoE and SKIT was highly praised, numerous students expressing a strong interest in having more workshops like this in the future.

Conclusion:

The 5-day workshop on "Introduction to E-Vehicles (2W)" at SKIT College was a resounding success, exceeding expectations in both educational impact and student engagement. By offering a blend of theoretical knowledge and practical application, the workshop provided students with a comprehensive understanding of E-Vehicles.

Participants were introduced to fundamental concepts and given the opportunity to apply these principles through hands-on projects and interactive sessions.

The collaboration between TCoE and SKIT College proved to be highly effective, fostering a learning environment that encouraged curiosity, creativity, and innovation.

The expertise of instructors was instrumental in delivering a rich and engaging learning experience. Their guidance helped students navigate complex topics and develop practical skills that are essential in the field of E-Vehicles.

The success of the workshop is evident in the enthusiasm and feedback from the students. Many participants expressed a newfound passion for E-Vehicles, indicating a strong interest in pursuing further education and careers in these areas. The skills and knowledge gained during the workshop have equipped students with a solid foundation, preparing them for future academic and professional endeavors. Moreover, the event highlighted the potential for future collaborations between TCoE and SKIT College. The positive outcomes of this workshop have set the stage for additional initiatives, workshops, and projects that can continue to enhance the educational experience of students.

In summary, the workshop not only enhanced the technical competencies of the students but also sparked a keen interest in the field, paving the way for future innovations and projects. The success of this event underscores the importance of practical, hands-on learning experiences in inspiring the next generation of engineers and technologists.

Bill of Material Consumed:

Following items are consumed during the E-Vehicle Workshop for Hands-on-Practice by students:

Sr.No	Item Name	Qt.	Price	Amount
1	Li-ion Battery	8 Pcs	100/Pcs	800
2	Nickle Strip (PURE NICLE)	300 Grams	6000/KG	1800
3	Battery Stacks	3 Set	1500/Set	4500
4	Soldering Wire -18SWG	300Grams	1200/Kg	360
5	Silicon Wire - 18AWG	5 Mtr.	65/Mtr	325
6	Automobile Wire Connectors	6	50	300
Total SUM of Consumable Items				8085

Photos and Glimpses of the Event:







