

# GLOBALLY RECOGNISED CERTIFICATE

[www.isnee.in](http://www.isnee.in)

ME, Auto, Industrial  
Mechatronics, EEE, ECE

**Register Now**  
**Hurry up!**

In full accordance  
to the AICTE Norms

**Worried about  
your Internship?**

**Well, don't be!**

Learn online and get the  
Certificate.

**Six Week**  
**Four Week**  
**Two Week**



**Certificate**

of Completion

**Letter**

of Recommendation

**Recorded**

Lectures

**Contact**

9410430424/25

**Email**

info@isnee.in

Organized by:



BEST IN THE FIELD

## 1. ABOUT THE INTERNSHIP

This internship program is organized by the ISNEE Research and Development Organisation (IRDO) in association with ISNEE Motorsports Pvt Ltd. IRDO is dedicated to educating and empowering young talent through innovative webinars and interactive sessions in the fields of Motorsports, E-mobility, Renewable Energy, and Digitalization.

Each month, IRDO mentors over 1,000 graduates and professionals eager to enter the E-mobility and Digitalization domains. These sessions focus on skill development, research, and prototyping, nurturing indigenous technology aligned with the "Make in India" mission.

By providing industry insights and mentorship, IRDO fosters innovative thinking and career development, ensuring participants are well-prepared to contribute to sustainable technologies.

## 2. OBJECTIVES

Internships are designed to offer educational and professional growth through practical experience in real-world settings. Key objectives of this program include:

- Expose technical students to industrial environments beyond the classroom.
- Provide opportunities to develop and sharpen technical and managerial skills.
- Introduce students to the latest technological developments in their field.
- Encourage the application of technical knowledge to real industrial situations.
- Develop proficiency in writing technical reports and project documentation.
- Promote understanding of professional responsibilities, ethics, and workplace psychology.
- Familiarize participants with materials, processes, products, and quality control practices.
- Facilitate academic, professional, and personal development.
- Connect students with potential employers and industry networks.

Program Details			
Name of Program	Duration (Weeks)	Mode	Fee (₹)
Electric Vehicles	2W/4W/6W	Recorded	2000/3000/4000
Design & Development of Go-Kart	2W/4W/6W	Recorded	1500/2000/2500
Design & Development of ATV	2W/4W/6W	Recorded	2000/2500/3000
Design & Development of Automotive Components	2W/4W/6W	Recorded	2000/2500/3000
Group Discount (for a group of 5 or more members)	15%		
Registration Start Date	1 June 2025		
Fee Payment	Immediately After Registration		
Program Start Date	Immediately After Fee Payment		
Certificate Issue Date	After Completion of all Lessons		

**3. REGISTRATION LINK:** <https://isnee.in/irdo/Registration/Long-Term-Reg.aspx>

#### 4. PAYMENT PROCEDURE

**Method 1:** Payment can be done through UPI to the following upi address which will reflect as **Indian Society of New Era Engineers**

**"ISNEEPAY@AXL"**

Once the payment is done, the payment reference can be shared with us on our WhatsApp Helpline: +91-9410430424. Our team remains active and the payment confirmation is usually done within 5-10 minutes after the payment reference is shared with us.

#### 5. AVAILABLE TRAINING MODULES

##### 5.1. Electric Vehicles

Lesson 1: Introduction to Electric Vehicles

Lesson 2: Various Types of EV's on Road

Lesson 3: Chassis & Body

Lesson 4: Vehicle Dynamics

Lesson 5: Motor – Definition & Principle

Lesson 6: Motor Construction

Lesson 7: Motor Parameters (Power, RPM, & Torque)

Lesson 8: AC & DC Motors for EVs

Lesson 9: Selection Procedure

Lesson 10: Motor Calculations

Lesson 11: Motor Performance Analysis

Lesson 12: Controller – Significance & Selection Procedure

Lesson 13: Battery Management System

Lesson 14: Motor-Battery-Controller Wiring

Lesson 15: Latest in EVs

Lesson 16: Retrofitting

Lesson 17: Manufacturing Technology

Lesson 18: MATLAB Simulations for Electrical System Layout

Lesson 19: Innovations in EV

Lesson 20: Testing of an EV

Lesson 21: Safety Measures

Lesson 22: Live Demonstration of EV Assembly

## 5.2. Design & Development of Go Karts

Lesson 1: Introduction to Go Kart  
Lesson 2: Go Kart Subsystems – Chassis & Body  
Lesson 3: Go Kart Subsystems – Powertrain  
Lesson 4: Go Kart Subsystems – Brakes and Wheel Assembly  
Lesson 5: Go Kart Subsystems – Steering  
Lesson 6: Vehicle Dynamics of Go Karts  
Lesson 7: Electric Go Kart  
Lesson 8: Battery Management System  
Lesson 9: Design Optimization  
Lesson 10: Autodesk Sketchbook

Day 11: SOLIDWORKS Basics and the User Interface  
Lesson 12: Basic Part Modeling  
Lesson 13: Symmetry and Draft  
Lesson 14: Patterning  
Lesson 15: Revolved Features  
Lesson 16: Shelling and Ribs  
Lesson 17: Editing: Repairs  
Lesson 18: Editing: Design Changes  
Lesson 19: Using Drawings  
Lesson 20: Using Assemblies

## 5.3. Design & Development of ATV

Lesson 1: Introduction to ATV  
Lesson 2: Various Systems of ATV  
Lesson 3: Vehicle Dynamics - Wheel Loads  
Lesson 4: Vehicle Dynamics - Wheel Assembly  
Lesson 5: Vehicle Dynamics - Steering System  
Lesson 6: Vehicle Dynamics - Suspension System  
Lesson 7: Vehicle Dynamics - Drivetrain  
Lesson 8: Vehicle Dynamics – Wheel Assembly & Brakes  
Lesson 9: Electric ATV

Lesson 10: Lotus Shark – Introduction  
Lesson 11: Lotus Shark – Simulation  
Lesson 12: SOLIDWORKS Basics and the User Interface  
Lesson 13: Basic Part Modeling  
Lesson 14: Symmetry, Draft & Pattern  
Lesson 15: Revolved Features  
Lesson 16: Design Repair & Edit  
Lesson 17: Assembly  
Lesson 18: Drawing  
Lesson 19: Chassis Design  
Lesson 20: Design Optimization

## 5.4. Design & Development of Automotive Components Using Cad Modeling

Lesson 1: Basics of Automobile - Chassis and Body  
Lesson 2: Basics of Automobile – Suspension System  
Lesson 3: Basics of Automobile - Powertrain  
Lesson 4: Basics of Automobile - Brakes  
Lesson 4: Basics of Automobile – Electric Vehicles  
Lesson 5: Basics of Automobile – Electric Vehicles  
Lesson 6: SOLIDWORKS Basics and the User Interface  
Lesson 7: Basic Part Modeling  
Lesson 8: Symmetry and Draft

Lesson 9: Pattern  
Lesson 10: Revolved Features  
Lesson 11: Shelling and Ribs  
Lesson 12: Editing: Repairs  
Lesson 13: Editing: Design Changes  
Lesson 14: Using Drawings  
Lesson 15: Using Assemblies  
Lesson 16: Lotus Suspension - Introduction  
Lesson 17: Lotus Suspension – Simulation  
Lesson 18: Lotus Suspension –Simulation  
Lesson 19: Autodesk SketchBook - Introduction  
Lesson 20: Autodesk SketchBook - Sketching

## **6. Benefits to the Industry**

- Availability of ready to contribute candidates for employment.
- Year round source of highly motivated pre-professionals.
- Students bring new perspectives to problem solving.
- Visibility of the organization is increased on campus.
- Quality candidate's availability for temporary or seasonal positions and projects.
- Freedom for industrial staff to pursue more creative projects.
- Availability of flexible, cost-effective work force not requiring a long-term employer commitment.
- Proven, cost-effective way to recruit and evaluate potential employees.
- Enhancement of employer's image in the community by contributing to the educational enterprise.

## **7. Benefits to Students:**

- An opportunity to get hired by the Industry/ organization.
- Practical experience in an organizational setting.
- Excellent opportunity to see how the theoretical aspects learned in classes are integrated into the practical world. On-floor experience provides much more professional experience which is often worth more than classroom teaching.
- Helps them decide if the industry and the profession is the best career option to pursue.
- Opportunity to learn new skills and supplement knowledge.
- Opportunity to practice communication and teamwork skills.
- Opportunity to learn strategies like time management, multi-tasking etc in an industrial setup.
- Opportunity to meet new people and learn networking skills.
- Makes a valuable addition to their resume.
- Enhances their candidacy for higher education.
- Creating network and social circle and developing relationships with industry people.
- Provides opportunity to evaluate the organization before committing to a full time position.

## **8. Benefits to the Institute:**

- Build industrial relations.

- Makes the placement process easier.
- Improve institutional credibility & branding.
- Helps in retention of the students.
- Curriculum revision can be made based on feedback from Industry/ students.
- Improvement in teaching learning process.

## 9. Why Us?

- Global recognition of the certificate.
- Best Speakers from automobile industry.
- The abbreviation of IRDO is single line answer (ISNEE RESEARCH AND DEVELOPMENT ORGANISATION). IRDO is not just a training center. It is the platform where you realize your abilities.
- What are your immediate needs? What are your long-term goals? Do you want to gain experience in a certain field? Do you want to start making professional connections? Are you exploring whether or not you want to enter a certain line of work? If you want to know these answers, join us in this program.

## 10. INTERNSHIP DURATION AND ACADEMIC CREDENTIALS (AICTE PATTERN):

- The following framework is proposed to give academic credit for the internship undergone as part of the program.
- • A minimum of 14-20 credits of Internship/ Entrepreneurial activities / Project work/ Seminar and Inter/ Intra Institutional Training may be counted toward B. Tech. degree program and 10-14 credits for three-year diploma program.
- • Here, 1 credit is equivalent to minimum 40-45 hours of work. Therefore, a full-time intern is expected to spend 40 - 45 hours per week on Internship, Training, Project work, Seminar activities etc. This will result in about 600 to 700 hours of total internship duration for B. Tech and 450-500 hours for diploma.
- Internships may be full-time or part-time; they are full-time in the summer vacation and part-time during the academic session. AICTE curriculum is flexible to adjust internship duration. Therefore, opportunities must be provided for experiences that cannot be anticipated when planning the course. The institutes have the flexibility to schedule internship, Project work, Seminar etc. according to the availability of the opportunities. However, minimum requirement regarding Internship duration and credits is as follows:

S.N	Schedule		Duration		Activities	Credits	
	(Degree)	(Diploma)	(Degree)	(Diploma)		(Degree) 14-20	(Diploma) 10-16
1	(Degree)	(Diploma)	(Degree)	(Diploma)	Degree/ Diploma	(Degree) 14-20	(Diploma) 10-16
2	Summer vacation after 2nd Semester	Summer vacation after 2nd Semester	3-4 weeks	3-4 weeks	Inter/ Intra Institutional Activities	3-4	3-4
3	Summer vacation after 4th Semester	Summer vacation after 4th Semester	4-6 weeks	4-6 weeks	Industrial/Govt./ NGO/MSME/ Rural Internship/ Innovation / Entrepreneurship	4-6	4-6
4	Summer vacation after 6th Semester	6th Semester	4-6 weeks	3-4 weeks	Industrial/Govt./ NGO/MSME/ Rural Internship/ Innovation / Entrepreneurship	4-6	3-4
5	8th Semester	8th Semester	3-4 weeks		Project work, Seminar (excluding credits for Advanced Courses)	3-4	