

# Master's in Hybrid Electric Vehicle Design & Simulation



SKILL  LYNC



## Who are we?

**Skill-Lync** is an engineering e-learning platform based in Chennai. The brainchild of two engineers, we are at the forefront of re-shaping engineering education in India. In the winter of 2019, we became the first start-up from Chennai to be funded by Y-Combinator.

Today, close to 8000+ students from over 58 countries study at Skill-Lync. Over three years we have helped 280 engineers achieve their dream careers.

58+

Countries

8000+

Students

300+

Placements

30000+

Projects



## About the program

This Master's in Hybrid Electric Vehicle Design and Analysis program is the first of its kind in India. It is an 8-month long program that trains you on all the essential engineering concepts and tools that are used by top OEMs to design future Electric & IC Engine Vehicles.

### List of companies a student can find employment with:

These are some of the organizations recruiting students upon their completion of this Master's Program - Mahindra, Tata Motors, Ford, Bajaj, TVS, Maruti, Force, Renault, Valeo, Hella, Varroc, Motherson, Greaves cotton, Uno Minda, Ather energy, Ola electric, Yulu, Magneti Marelli, Magna, Delphi, Denso, Continental.

### Expected Job Roles:

After completing this program, students will be eligible to apply for the post of simulation engineer, system engineer, hardware and software engineer, and similar vacancies at both Automotive & related components supplier companies. They can also choose to go for startup jobs in the relevant fields. The students will also get opportunities in research centers at Universities or similar consultancy organizations.



# Our Support Engineers

Once you enroll in our program, we make sure to walk you through the entire coursework with our support engineers. Our technical support engineers are available round the clock to answer any questions or doubts that you may have while you go through our coursework.

You will be added to a whatsapp group where you can discuss your queries and you will also get dedicated one-on-one video calls with our support engineers.

This will make sure that you have a seamless learning experience.

## Career Support

### Counselling

Our career success team is here to sit with the students to understand their passion and goals to advise them towards the right career path. They also analyse their strengths and weaknesses to mould them towards success in the path they choose.

### LinkedIn

Making the right connections on LinkedIn can be your gateway to many job opportunities. Our career support team helps you capitalise on this platform.

### Resume

The resume of the candidate forms the first impression to the recruiter. That is why we help them create one that highlights their key skills, strengths and knowledge.

### Tool Tests

The first round of every interview is where the candidate is judged on their technical skills. These are done by conducting various tool tests. Our students are specifically trained to ace this by our technical support team.

### Mock Interviews

More the number of interviews a candidate attends, the better their confidence level. Our students are trained with several mock interviews so that they get enough exposure to understand their weak spots and prepare for the real one with ease.



# Reasons to select this course

- Designed by Skill-Lync with inputs from academicians and industry experts to ensure that students are trained in the skills expected in the industry.
- Students will be supported by Skill-Lync's dedicated team of support engineers, who will answer all your questions around the clock.
- After you have completed 80% of your program syllabus, you will start to talk to the Skill-Lync career success team who will help you train for your interviews. They will also help you apply for the job roles that you are best equipped for. Alongside this, they will also help streamline your resume and your LinkedIn profile, such that the recruiters will come to you with job offers and not the other way around.

## Course Syllabus

The entire program is split into two semesters. During the first semester, you will be taking these mandatory courses.

### Semester 1

- Course 1: Matlab for Mechanical Engineers
- Course 2: Introduction to HEV using Matlab and Simulink
- Course 3: Introduction to control of Electric vehicles
- Course 4: Introduction to Battery Technology using Matlab and Simulink
- Course 5: Introduction to Matlab and Simulink for ADAS features

### Semester 2

- Course 1: Preprocessor for Meshing using ANSA
- Course 2: Python For Mechanical engineers

After completing these two courses, you can choose one of the below 4 specialization tracks & become an EV expert.

### Track 1: Computational Fluid Dynamics (CFD)

- Course 1: Introduction to CFD using Matlab and OpenFOAM
- Course 2: Introduction to GUI based CFD using Ansys Fluent
- Course 3: Advanced IC Engine Simulations using Converge
- Course 4: IC engine calibration using GT Power

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## Track 2: Finite Element Analysis (FEA)

- Course 1: Basic Structural Analysis using Solidworks
- Course 2: Structural Analysis using Ansys Workbench
- Course 3: HyperMesh for FEA and Plastics
- Course 4: Crash-worthiness Analysis using HyperMesh and Radioss

## Track 3: Computational Design

- Course 1: Ultimate Solidworks course
- Course 2: Advanced Sheet metal design
- Course 3: Advanced Automotive sheet metal design
- Course 4: Plastics Design
- Course 5: Geometric Dimension and Tolerancing

## Track 4: Multi-Body Dynamics

- Course 1: Basic Multibody Dynamics Using Solidworks
- Course 2: Intermediate level multibody dynamics using Motion view and Motion solve
- Course 3: Introduction to Vehicle Dynamics using Matlab
- Course 4: Suspension Design using ADAMS

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### Basic

9 Months Access

₹ 25000

Enroll Now

Per month for 10 months

- Access Duration : 9 months
- Mode of Delivery : Online
- Project Portfolio : Available
- Certification : Available
- Email Support : Available
- Whatsapp Support : Available

### Pro

18 Months Access

₹ 30000

Enroll Now

Per month for 10 months

- Job Assistance : Available
- Master's Assistance : Available
- Access Duration : 18 months
- Mode of Delivery : Online
- Individual Video Support : 16/month
- Certification : Available
- Group Video Support : 16/Month
- Email Support : Available
- Whatsapp Support : Available
- Telephone Support : Available
- Add-ons Industry Projects : 10

### Premium

Lifetime Access


₹ 35000


Enroll Now


Per month for 10 months


- Job Assistance : Available
- Master's Assistance : Available
- Access Duration : Lifetime
- Mode of Delivery : Online
- Individual Video Support : 24x7
- Certification : Available
- Group Video Support : 24x7
- Project Portfolio : Available
- Email Support : Available
- Whatsapp Support : Available
- Telephone Support : Available
- Add-ons Industry Projects : 10
- Offline Skill-Center Access : Available
- Dedicated Support Engineer : Available
- Paid Internship : 3 Months


## Contact Details

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