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Features:

- An unique opportunity for working professionals to pursue an MTech Degree at IIT Madras
- Equivalent to degree conferred upon on-campus students
- Intermediate exit with Post Graduate Diploma in E-Mobility
- Flexible learning experience through live classes with faculty on weekends combined with recorded content to view at their convenience
- Exams conducted on weekends at pre-announced dates at centers across India/online remote proctored
- No limit on number of seats. All those who qualify and become eligible in the selection test can join WEMEM
- International candidates can also join WEMEM but will have to come to IIT Madras Campus for completing the lab course

Eligibility:

- Completed a BTech/BE in any engineering discipline with a minimum CGPA of 6.0 (out of 10) or 60% &
- Minimum 2 years of work experience

Selection Process:

Computer-based proctored in-person written test on fundamental Mathematics and Physics principles. Applicants would be provided with recorded videos and sample questions to help them prepare for this selection test.

Registration details:

Registration for selection test is open now
Last date to apply: May 26th, 2024
Registration fee: Rs 3000/-
Date of selection test: July 7, 2024

Contact wemem@code.iitm.ac.in for more details
WEMEM FACULTY

Prof. C. S. Shankar Ram
Dept. of Engineering Design
IIT Madras and Coordinator, WEMEM

Mr. B. Balaji
Professor of Practice
Dept. of Engineering Design
IIT Madras

Prof. Deepak Ronanki
Dept. of Engineering Design
IIT Madras

Prof. R. Sarathi
Dept. of Electrical Engineering
IIT Madras

Dr. Kaushal Jha
Adjunct Professor,
Dept. of Engineering Design
IIT Madras

Prof. Kavitha Arunachalam
Dept. of Engineering Design
IIT Madras

Prof. Ganapathy Krishnamurthi
Dept. of Engineering Design and Wadhwani School of Data Science and AI, IIT Madras

Mr. T. S. Ravi
Industry Expert - EV Evaluation and Testing

Mr. Karthick Athmanathan
Professor of Practice, IIT Madras
Industry Expert in eMobility and Advisor, WEMEM

Prof. Srikanthan Sridharan
Dept. of Engineering Design
IIT Madras

Prof. R. Jayaganthan
Dept. of Engineering Design
IIT Madras

Prof. R. Kothandaraman
Dept. of Chemistry
IIT Madras

Prof. Nilesh Vasa
Dept. of Engineering Design
IIT Madras

Prof. Srikanth Vedantam
Dept. of Engineering Design
IIT Madras

Prof. Balaji Srinivasan
Dept. of Mechanical Engineering and Wadhwani School of Data Science and AI, IIT Madras
3 Terms in a year
Term 1: September - December (Start of fresh batch)
Term 2: January - April
Term 3: May - August

2 COURSES/TERM

PG Diploma
5 TERMS
93 credits
• 6 core courses (54 credits)
• 3 electives (27 credits)
• Mini Project (12 credits)

MTech Degree
7 TERMS
190 credits
• 6 core courses (54 credits)
• 3 electives (27 credits)
• Mini Project (12 credits)
• Lab course (12 credits)
• Main Project (85 credits)
Core Courses
• Electric Vehicle Engineering and Development
• Power Electronics and Motor Drives for Electrified Vehicles
• Design and Control of AC Machines for Electrified Vehicles
• Battery Charging Technology
• Energy Storage Devices and Systems
• Electric Vehicle System Dynamics and Control

Elective Courses
• Electrochemistry: Fundamentals and Applications
• High Voltage Technology
• Mechatronics System Design
• Powertrain and Fuels
• Fundamentals of Thermal Management in Electric Vehicles
• Electromagnetic Compatibility for Automotive Electronics
• Electric Vehicle Evaluation and Testing
• AI Algorithms for E-Mobility Applications

Lab
E-Mobility Lab

Project
• Mini Project
• Main Project for WEMEM - with employer / company support
MODES OF ADMISSION

PG Diploma

- Any candidate who satisfies the eligibility of the UG degree and work experience can apply to study in the PG Diploma program. No documents are required in this case apart from qualifying in the “Selection test” to enter the program.

- Once they complete the course work and mini project and become eligible for the PG diploma, if they want to proceed with the main project in order to get the MTech degree, they can provide the NOC and Letter of support from the company they work in at this time and if IITM approves, continue with the MTech requirements.

MTech Degree

- **MoU between IIT Madras and companies**
  A company can nominate their employees for admission to this program by signing a MoU with IIT Madras. As part of the MoU, the company should agree to permit them to carry out their projects in the company and provide senior employees who will be the guides from the company for the projects.

- **No MoU with IIT Madras**
  Candidate should provide:
  a) No-Objection Certificate (NOC) from their company, and
  b) letter of support from their company that states that the company will facilitate and support them to carry out their projects within the company and provide senior employees who will guide them from the company.

### Academic Calendar

Important dates for the selection test and first term are:
- Last date to receive applications: May 26, 2024
- Date of selection test: July 7, 2024
- Date of release of results and selection list: July 21, 2024
- Date within which to accept and register to the program: August 10, 2024
- Start date of Term 1: September 20, 2024 (Friday)
- Final exam date: December 22, 2024 (Sunday)
How to Enroll

1. Register for Selection Test
   a. Fill registration form
   b. Pay registration fee (Rs 3000/-)
   c. Document verification

2. Attend Selection Test
   Computer-based in-person proctored written test

3. Begin your Journey
   Admission confirmation and fee payment

Fee Structure

Registration Fee for Selection Test ₹ 3000/-

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<tr>
<th>Term</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Term 1</td>
<td>₹1,44,000/-</td>
</tr>
<tr>
<td>Term 2</td>
<td>₹1,44,000/-</td>
</tr>
<tr>
<td>Term 3</td>
<td>₹1,44,000/-</td>
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<tr>
<td>Term 4</td>
<td>₹1,44,000/-</td>
</tr>
<tr>
<td>Term 5</td>
<td>₹92,000/-</td>
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Total ₹ 6,71,000

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<tr>
<th>Term</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Term 5*</td>
<td>₹96,000/-</td>
</tr>
<tr>
<td>Term 6</td>
<td>₹40,000/-</td>
</tr>
<tr>
<td>Term 7</td>
<td>₹50,000/-</td>
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Total ₹ 8,57,000

*Term 5 fees for MTech candidates - ₹1,88,000/- (₹92,000 + ₹96,000)