




Centre of Excellence for Electric Vehicle and Related Technologies  
DELHI TECHNOLOGICAL UNIVERSITY  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road, Delhi-110042

F No. DTU/CoE for EVRT/2023-24/186

Dated: 08.12.2023

**CIRCULAR**

1. The Centre of Excellence for Electric Vehicles and Related Technologies (CoE for EVRT) is established as a new Centre in Department of Electrical Engineering, DTU.
2. The Centre aims to provide interdisciplinary research and development in the area of Electric Vehicles and Related Technologies with the following objectives:
  - a) Design, development, and analysis of cost-effective and sustainable EV prototype
  - b) Design and development of battery packs and BMS for different types of EV
  - c) Design, development and analysis of EV motors and drives
  - d) Design and retro-fitting of existing ICE vehicles to EVs
  - e) Design and development of EV charging infrastructure and grid management
  - f) To offer M.Tech. and Ph.D. Programs in the area of EV technology
  - g) To offer internship opportunities to students of degree, diploma and certificate level institutions under Government of NCT of Delhi.
  - h) Capacity building in terms of trained manpower at different levels such as technicians, supervisors and engineers in the area of EV technology.
3. Recently, The university has introduced Minor Specialization in the field of 'Electric Vehicle Technology' for B. Tech students under Centre of Excellence in Electric Vehicle and Related Technologies, Department of Electrical Engineering, DTU.
4. The details of courses for Minor Specialization in the field of Electric Vehicle Technology are given in Annexure-1 of this circular.
5. The Centre of Excellence for Electric Vehicles and Related Technologies (CoE for EVRT) is **offering courses namely EV-302 and EV-352 in this semester for Sixth Semester students.**
6. In addition to above, the centre is also providing internship, laboratory facilities and various projects as design and development and retrofitting of Two, Three and Four wheeler prototypes and design and development of Battery Management System.
7. **The interested students are advised to take these courses namely EV- 302 and EV-352 while filling their choices for coming semester on DTU portal and also forward their details at email id: [coevrt@dtu.ac.in](mailto:coevrt@dtu.ac.in) with copy to [hodce@dce.ac.in](mailto:hodce@dce.ac.in) by 13.12.2023.**

  
(Prof. Uma Nangia)  
Co-coordinator, CoE for EVRT

Copy to:

1. Coordinator, CoE for EVRT
2. Head of Department, EE



Centre of Excellence for Electric Vehicles and Related Technologies  
 Department of Electrical Engineering  
**DELHI TECHNOLOGICAL UNIVERSITY**  
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 Shahbad Daultapur, Bawana Road, Delhi-110042



**SCHEME AND SYLLABUS**

for

**Minor Degree in Electric Vehicles Technology**

Teaching Scheme				Exam Duration (Hrs)		Contact Hours /Week			Relative Weights (%)			
S. No.	Course Code	Course Title	Credits	T	P	L	T	P	CWS	PRS	MTE	ETE
<b>Mandatory Courses</b>												
1.	EV-301	Fundamentals of Electric Vehicles	4	3	0	3	0	2	15	25	20	40
2.	EV-302	Energy Storage Systems for Electric and Hybrid Vehicles	4	3	0	3	0	2	15	25	20	40
3.	EV-303	Power Electronics Converters and Drives for Electric Vehicles	4	3	0	3	0	2	15	25	20	40
<b>Total Credits to be earned</b>			<b>12</b>									
<b>Elective Courses</b>												
4.	EV-351	E Mobility	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
5.	EV-352	Electric Vehicles Retrofitting, Testing and Troubleshooting	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
6.	EV-353	Electric Vehicles Design, Dynamics and Testing	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
7.	EV-354	Automotive Electronics and Embedded Systems	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
8.	EV-355	Chargers and Charging Infrastructure	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
9.	EV-356	Intelligent Transportation Systems	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
10.	EV-358	Plug in Electric Vehicles and Smart Grid	4	3	0	3	0/1	2/0	15/25	25/0	20/25	40/50
<b>Total Credits to be earned</b>			<b>12</b>									