

College of Engineering Pune

Department: Electrical (Power Electronics and Machines Drives)

CO-PO Mapping

PO	Description	Course Code
Students Will be able to		
PO1	Independently carry out research / investigation and development work to solve practical problems.	PEMD -16006, PEMD-16002, EE-16002, PEMD-16003, PEMD-16004, ML-15001, ML-15002, PEMD-16007, PEMD(DE)-17002 (c), PEMD(DE)-17003 (a), PEMD(DE)-17003 (b), PEMD-17004, PEMD-19001, PEMD-19002 (EM), PEMD-19002 (ES), PEMD(DE)-19002, PEMD(DE)-19003, ML-19011, ML-19012, PEMD-19004, PEMD-19007 (EM), PEMD-19007 (ES), PEMD(DE)-19005, PEMD(DE)-19009, PEMD-19011, PEMD-19013, PEMD-19014, PEMD-20001, PEMD-20003, PEMD-20004
PO2	Write and present a substantial technical report /document.	PEMD -16006, PEMD-16002, PEMD-16003, ML-15001, PEMD(DE)-17002 (a), PEMD(DE)-17002 (c), PEMD(DE)-17002 (c), PEMD-17004, PEMD-19002 (ES), ML-19011, ML-19012, PEMD-19007 (EM), PEMD(DE)-19006, PEMD(DE)-19008, PEMD(DE)-19011, PEMD-20003
PO3	Demonstrate a degree of mastering over the area as per the specialization of the program.	PEMD -16006, EE-16002, PEMD-16007, PEMD-16008, PEMD-16009, PEMD(DE)-17002 (c), PEMD(DE)-17002 (c), PEMD(DE)-17003 (c), PEMD-17003, PEMD-17002, PEMD-17004, PEMD-19001, PEMD-19002 (EM), PEMD-19007 (ES), PEMD-19009, PEMD-19011, PEMD-20003
PO4	Design and analyze Electrical machine required for various Applications	PEMD-16001, PEMD-16002, PEMD-16003, PEMD-16005, PEMD-17004, PEMD-19001, PEMD-19002 (ES), PEMD(DE)-19003, PEMD-19007 (EM), PEMD-19007 (ES), PEMD-19012, PEMD-20003
PO5	Design and analyze Electrical Machine drive required to various applications	PEMD-16002, PEMD-16003, PEMD-16007, PEMD-16009, PEMD(DE)-17003 (c), PEMD-17003, PEMD-19001, PEMD-19002 (EM), PEMD-19002 (ES), PEMD-19004, PEMD-19005, PEMD-19007 (EM), PEMD-19007 (ES), PEMD-19011, PEMD-19014, PEMD-20003
PO6	Select, Configure & use appropriate modern tool to solve and analyze Electrical Machine drive system	PEMD-16003, PEMD-16005, PEMD-16009, PEMD(DE)-17003 (a), PEMD(DE)-17003 (b), PEMD-17003, PEMD-19001, PEMD(DE)-19002, PEMD(DE)-19003, PEMD-19005, PEMD-19009, PEMD(DE)-19009, PEMD(DE)-19010, PEMD(DE)-19012, PEMD-19012, PEMD-19015, PEMD-20001, PEMD-20003

CO PO mapping of courses of curriculum for 2019-23

Note: "---" indicates Not Applicable

Sr. No.	Course Code	Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6
1	PEMD-19001	CO1	H*	M*	H	H	L*	H
		CO2	M	M	H	H	H	H
		CO3	H	L	H	H	H	M
		CO4	H	M	H	H	H	H
2	PEMD-19002 (EM)	CO1	H	---	H	L	H	H

		CO2	M	M	L	H	---	---
		CO3	M	L	M	---	H	L
		CO4	L	L	M	H	---	L
3	PEMD-19002 (ES)	CO1	---	M	L	H	H	L
		CO2	M	M	---	H	L	M
		CO3	H	H	L	M	M	L
		CO4	L	L	M	H	H	L
4	PEMD(DE)-19001	CO1	L	L	L	L	L	L
		CO2	H	H	H	---	---	M
		CO3	M	L	M	M	M	M
		CO4	L	H	H	M	M	M
5	PEMD(DE)-19002	CO1	L	---	---	---	---	L
		CO2	M	---	---	M	L	H
		CO3	H	M	L	---	H	M
		CO4	L	---	---	M	---	L
6	PEMD(DE)-19003	CO1	H	M	---	H	L	---
		CO2	M	---	L	H	---	---
		CO3	M	---	L	M	---	H
		CO4	L	---	---	M	L	H
7	PEMD(DE)-19004	CO1	H	L	---	---	---	L
		CO2	---	---	---	---	L	M
		CO3	---	M	---	L	---	M
		CO4	---	H	---	M	---	---
8	PEMD(DE)-19013	CO1	M	---	---	---	---	M
		CO2	M	---	---	---	---	---
		CO3	M	---	M	---	---	---
9	ML-19011	CO1	H	---	---	---	---	---
		CO2	H	H	---	---	---	---
		CO3	H	H	---	---	---	---
		CO4	H	H	---	---	---	---
10	ML-19012	CO1	M	M	L	L	M	L
		CO2	H	H	L	---	M	M
		CO3	M	H	L	---	M	---
		CO4	M	H	---	---	L	M
		CO5	H	M	---	---	---	---
11	PEMD-19004	CO1	H	L	H	---	---	L
		CO2	M	L	---	---	H	L
		CO3	---	L	---	L	H	M
		CO4	---	H	---	L	H	L
		CO5	L	L	---	L	H	L
12	PEMD-19005	CO1	---	---	H	L	H	M
		CO2	L	---	---	L	H	H
		CO3	M	---	M	---	H	M
		CO4	M	---	M	M	H	M
13	PEMD-19006	CO1	---	---	H	L	H	M
		CO2	L	---	---	L	H	H

		CO3	M	---	M	---	H	M
		CO4	M	---	M	M	H	M
14	PEMD-19007 (EM)	CO1	---	L	---	M	---	H
		CO2	---	M	L	H	H	L
		CO3	M	M	---	H	L	M
		CO4	H	H	L	M	M	L
		CO5	L	L	M	H	H	L
15	PEMD-19007 (ES)	CO1	H	---	H	L	H	H
		CO2	M	M	L	H	---	---
		CO3	M	L	M	---	H	L
		CO4	L	L	M	H	---	L
		CO5	M	H	---	---	---	L
16	PEMD-19009	CO1	H	---	H	---	---	H
		CO2	---	---	H	---	---	H
		CO3	---	---	H	---	---	H
		CO4	---	---	H	---	---	H
17	PEMD(DE)-19005	CO1	L	L	---	---	---	---
		CO2	M	---	M	L	---	---
		CO3	H	---	M	---	---	---
		CO4	L	L	M	---	---	---
18	PEMD(DE)-19006	CO1	---	M	---	---	L	L
		CO2	L	---	---	---	L	---
		CO3	L	H	---	---	---	L
		CO4	L	L	---	---	---	---
		CO5	L	H	---	---	---	L
19	PEMD(DE)-19007	CO1	M	L	---	L	L	M
		CO2	L	M	---	---	L	---
		CO3	H	M	L	L	---	---
		CO4	---	H	---	M	---	L
20	PEMD(DE)-19008	CO1	M	---	H	M	M	H
		CO2	---	---	M	---	---	H
		CO3	M		L			
21	PEMD(DE)-19009	CO1	H	---	L	---	M	H
		CO2	M	L	---	---	---	---
		CO3	M	L	L	---	L	M
		CO4	L	H	---	---	---	M
22	PEMD(DE)-19010	CO1	M	---	---	---	---	M
		CO2	L	---	M	---	L	H
		CO3	L	---	---	---	---	M
		CO4	---	---	---	---	---	H
		CO5	---	---	M	---	M	M
23	PEMD(DE)-19011	CO1	L	M	H	M	H	L
		CO2	L	H	L	L	L	L
		CO3	L	H	L	L	L	L
		CO4	L	H	L	L	L	L
24	PEMD(DE)-19012	CO1	L	---	M	---	---	M

		CO2	M	---	M	---	---	H
		CO3	M	---	M	---	M	H
25	LL-19001	CO1	---	L	---	---	---	---
		CO2	M	---	---	---	---	---
		CO3	L	---	---	---	---	---
		CO4	---	---	---	---	---	---
26	PEMD-19011	CO1	M	---	M	---	M	L
		CO2	H	L	M	---	H	M
		CO3	M	---	M	L	H	M
		CO4	M	---	H	---	H	M
27	PEMD-19012	CO1	M	---	L	H	---	L
		CO2	L	L	M	H	---	M
		CO3	H	M	M	H	L	H
		CO4	M	---	M	L	H	H
28	PEMD-19013	CO1	H	---	M	---	---	H
		CO2	M	L	M	---	---	L
		CO3	---	L	---	---	---	L
		CO4	---	---	L	---	L	H
29	PEMD-19014	CO1	M	---	M	---	M	L
		CO2	H	L	M	---	H	M
		CO3	M	---	M	L	H	M
		CO4	M	---	H	---	H	M
30	PEMD-19015	CO1	M	M	M	---	L	H
		CO2	M	M	M	---	L	H
		CO3	M	M	M	---	L	H
		CO4	M	M	M	---	L	H
31	PEMD-20001	CO1	H	M	---	---	---	H
		CO2	H	---	M	---	---	H
		CO3	M	M	---	---	---	M
		CO4	H	M	---	---	---	H
		CO5	L	H	---	---	---	---
32	PEMD-20002	CO1	L	M	---	---	---	---
		CO2	L	L	---	---	---	---
		CO3	M	M	---	---	---	---
		CO4	M	M	---	---	---	---
33	PEMD-20003	CO1	M	M	---	---	---	M
		CO2	H	M	M	---	---	H
		CO3	---	---	H	H	H	H
		CO4	M	H	M	M	M	M
		CO5	M	H	M	M	M	M
		CO6	H	---	M	M	M	H
34	PEMD-20004	CO1	H	---	---	---	L	---
		CO2	M	---	---	---	L	---
		CO3	L	M	---	---	---	---
		CO4	H	M	---	---	---	---