



Central University of Karnataka

(Established by an Act of the Parliament in 2009)

School of Engineering

Dept.: EE Dept.

LOCF Based Curriculum

Course Structure Ph.D-EE

2021-22

Course Structure for PhD in Electrical Engineering (DPEE)

Semester I and II

Sl. No.	Course Code	L/P	Course Title	Credits	Hours	L+T+P	IA (40%)	End Sem. Exam (60%)	Total Marks
1	DEETC10001	L	Research Methodology	4	4	3-1-0	40	60	100
2	DEETC10002	L	Mathematics and optimizations related subjects	4	4	3-1-0	40	60	100
3	DEETA10301	L	Research & Publication Ethics	2	2	2-0-0	20	30	50
2	DEETD10200*	L/P	Research Specific Course* (CC/CP/DES/GE)	4	4	3-1-0	40	60	100
Total				14	-	-	140	210	350

Note: 1. L: Lecture, P: Practical; T: Tutorial

2. Research Scholar has to complete total 14 credits within one year of joining. i.e. (two semesters)

3. *List of Research Specific Courses (If the specific course is not being offered in the Department/School then it may be taken from NPTEL/SWAYAM/any other PG level science/Management Department of University) upon research Supervisor consent:

4. Research Specific courses evaluation will be as per the subject

S.No	Course Code(Tentative)	Course Title
1	DEETD10201	Advanced Power Systems Analysis and Stability
2	DEETD10202	Advanced power electronics and drives
3	DEETD10203	Distributed generation and microgrid
4	DEEPD10204	Renewable Energy Lab
5	DEETD10205	Electric Vehicle
6	DEETD10206	Special Electric Machines
7	DEETD10207	Power System Dynamics
8	DEEPD10208	AI applications to power system
9	DEETD10209	Distribution system engineering



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10	DEETD10210	Electric Power quality
11	DEETD10211	Energy Auditing and Conservation
12	DEETD10212	Electricity acts and regulation
13	DEETD20213	Smart Grid
14.	DEETD20214	Energy Storage Systems
15	DEETD20215	EHV/UHV Engineering
16	DEETD20216	Power System Simulation Lab
17	DEETD20217	Power System Planning
18	DEETD20218	Power system reliability
19	DEETD20219	Advanced Control engineering
20	DEETD20220	Industrial Application of high Voltage
21	DEETD20221	Digital Control of Power Electronics Drive
22	DEETD20222	Industrial instrumentations and Measurements
23	DEETD20223	Pollution control in power plants
24	DEETD20224	Solar Photo Voltaic Systems