



Regn Tm: 2607298

(C & NT)

LESSON PLAN REGISTER  
Department of Electrical Engg.  
ETC  
BDSE, BRAJRAJ NAGAR  
SEMESTER: 3rd Sem.  
SESSION - 2018-2019 Onwards  
NAME OF FACULTY: J K DUTIACHANDI



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LONG BOUND EXERCISE BOOK

| Discipline/Elective | Semester                               | 3rd Name of the J.K  | DUTYCHARGING |
|---------------------|--|--|--------------|
|                     | no. of days<br>class/week<br>Allocated | Teaching Faculty<br>Semester from<br>date to date  | No of work   |
| SEMI-CONT           |  | 2020-2021<br>(Feb)   |              |
| Week                | Class/Day                              | Theory   |              |
| 1st                 |  | 1. MAGNETIC CIRCUITS:<br>Magnetizing force, Intensity, MMF, Flux & their relation,<br>permeability, reluctance & permeance,<br>driving force, electric & magnetic ckt.,<br>B-H curve,<br>series & parallel magnetic ckt.,  |              |
| 2nd                 |  | HYSTERESIS loop.<br>kt, vl, with problems,<br>2. coupled ckt., self inductance & mutual inductance<br>conductively coupled circuit & mutual inductance,<br>Dot convention, coefficient of coupling.<br>series & parallel connections of coupled inductors.<br>related numerical problems.                          |              |
| 3rd                 |  | 2nd elements & analysis, induction,<br>Active, passive, unilateral & bilateral, linear &<br>non-linear elements.<br>Mesh Analysis, mesh eqn by inspection.<br>Super Mesh Analysis.<br>Nodal Analysis   |              |
| 4th                 |  | 6th<br>Nodal eqns by inspection -<br>super node Analysis, Terminator.<br>source Trans formation Terminator.<br>solve numerical problems.<br>Thevenin Theorem<br>Thevenin Theorems with problems.<br>Norton's Theorem with problems.<br>max power transfer Theorem with problems.                                   |              |
| 5th                 |  | 7th<br>AC circuit & Resonance<br>AC through R-L, R-C & R-L-C ckt.<br>solve problems.<br>power factor & power triangle, active, apparent<br>reactive power.<br>Resonant frequency of series resonance &<br>parallel resonance ckt.,<br>Bandwidth, selectivity (Q-Factor). n series ckt<br>3-ive numerical problems. |              |
| 6th                 |  | 8th<br>G. Polyphase ckt. :-<br>concept of poly phase system & phase sequence.<br>relation betn phase & line quantities in<br>star & delta connection.<br>power eqn in 3-phase balanced ckt.  |              |

Date: / /

solve numerical problems.

10<sup>th</sup>

### 7. Transients:-

steady state & transient state response.  
response to R-L, R-C & RLC circuit under  
DC cond<sup>n</sup>.

### (8.) Two port networks:-

11<sup>th</sup>

open circuit impedance parameters (problems)

short circuit admittance parameters (problems)

Transmission (A, B, C, D) parameters (problems)

Hybrid (h) parameters.

Inter relationships of different parameters.

TA  $\Pi$  representation.

12<sup>th</sup>

### 9. Filters:- Define, classification,

constant-k - low pass filter.

constant-k<sub>1</sub> - high pass filter.

constant k - band pass filter.

constant k - Band elimination filter.

13<sup>th</sup>

14<sup>th</sup>