

### ACADEMIC LESSON PLAN OF WINTER 2024

|                                                                     |                                                   |                                                                                      |
|---------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------|
| Discipline:<br>MATH&SCIENCE                                         | Semester:1 <sup>ST</sup> Sem (Sec- A)             | Name of the Teaching Faculty: MR.JASOBANTA BARIK and BISWANITA SAHU                  |
| Subject:<br>Fundamental of Electrical & Electronics Engineering Lab | No. of days/per week class allotted: 1p(1hr)/week | Semester from:<br>No. of Weeks: 15 weeks                                             |
| 1 <sup>st</sup>                                                     | 1 <sup>st</sup>                                   | Expr no1: Determine the permeability of magnetic material by plotting its B-H curve  |
| 2 <sup>nd</sup>                                                     | 1 <sup>st</sup>                                   | Expr no1: Determine the permeability of magnetic material by plotting its B-H curve  |
| 3 <sup>rd</sup>                                                     | 1 <sup>st</sup>                                   | Expr no1: Determine the permeability of magnetic material by plotting its B-H curve  |
| 4 <sup>th</sup>                                                     | 1 <sup>st</sup>                                   | Expr no 2: Measure voltage, current and power in 1-phase circuit with resistive load |
| 5 <sup>th</sup>                                                     | 1 <sup>st</sup>                                   | Expr no 2: Measure voltage, current and power in 1-phase circuit with resistive load |
| 6 <sup>th</sup>                                                     | 1 <sup>st</sup>                                   | Expr no 2: Measure voltage, current and power in 1-phase circuit with resistive load |
| 7 <sup>th</sup>                                                     | 1 <sup>st</sup>                                   | Expr no 3: Measure voltage, current and power in R-L series circuit                  |
| 8 <sup>th</sup>                                                     | 1 <sup>st</sup>                                   | Expr no 3: Measure voltage, current and power in R-L series circuit                  |
| 9 <sup>th</sup>                                                     | 1 <sup>st</sup>                                   | Expr no 3: Measure voltage, current and power in R-L series circuit                  |
| 10 <sup>th</sup>                                                    | 1 <sup>st</sup>                                   | Expr no 4: Determine the transformation ratio(K) of 1-phase transformer              |
| 11 <sup>th</sup>                                                    | 1 <sup>st</sup>                                   | Expr no 4:Determine the transformation ratio(K) of 1-phase transformer               |
| 12 <sup>th</sup>                                                    | 1 <sup>st</sup>                                   | Expr no 5: Connect single phase transformer and measure input and output quantities  |
| 13 <sup>th</sup>                                                    | 1 <sup>st</sup>                                   | Expr no 5: Connect single phase transformer and measure input and output quantities  |
| 14 <sup>th</sup>                                                    | 1 <sup>st</sup>                                   | Expr no 6: Make Star and Delta connection in starter to run induction motor          |
| 15 <sup>th</sup>                                                    | 1 <sup>st</sup>                                   | Expr no 6: Make Star and Delta connection in starter to run induction motor          |

*Jasobanta Barik*

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| Subject:<br>Fundamental of Electrical & Electronics Engineering Lab | No. of days/per week class allotted: 1p(1hr)/week | Semester from:<br>No. of Weeks: 15 weeks                                             |
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| Subject:<br>Fundamental of Electrical & Electronics Engineering Lab | No. of days/per week class allotted: 1p(1hr)/week | Semester from:<br>No. of Weeks: 15 weeks                                             |
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