## GANDHI SCHOOL OF ENGINEERING

## BHABANDHA, BERHAMPUR <br> PROPOSED WORK

$3^{\text {RD }}$ ETC SUBJECT-Th. 1 ENGINEERING MATHEMATICS - III
NAME OF FACULTY- NISHAN BEHERA

| $\begin{array}{c}\text { SL NO. } \\ \text { CHAPTER }\end{array}$ | $\begin{array}{c}\text { TOPICS }\end{array}$ | $\begin{array}{c}\text { NO OF } \\ \text { PERIODS } \\ \text { ASSIGNED }\end{array}$ | PLANNING DATES |
| :---: | :--- | :---: | :---: |
| BY SCTE\&VT |  |  |  |$)$


|  | consistency. <br> 2.5. Solve problems on 2.1-2.4 |  |  |  |
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| 3 | Linear Differential Equations <br> 3.1. Define Homogeneous and Non Homogeneous Linear Differential Equations with constant coefficients with examples. <br> 3.2. Find general solution of linear Differential Equations in terms of C.F. and P.I. <br> 3.3. Derive rules for finding C.F. And P.I. in terms of operator $D$, excluding. <br> 3.4. Define partial differential equation (P.D.E) . <br> 3.5. Form partial differential equations by eliminating arbitrary constants and arbitrary functions. <br> 3.6. Solve partial differential equations of the form $P p+Q q=R$ <br> 3.7. Solve problems on 3.1-3.6 | 10 | $\begin{gathered} 23 \text { DEC } 2021 \\ \text { To } \\ 30 \text { DEC } 2021 \end{gathered}$ |  |
| 4 | Laplace Transforms <br> 4.1. Define Gamma function and and find . <br> 4.2. Define Laplace Transform of a function and Inverse Laplace Transform . <br> 4.3. Derive L.T. of standard functions and explain existence conditions of L.T. <br> 4.4. Explain linear, shifting property of L.T. <br> 4.5. Formulate L.T. of derivatives, integrals, multiplication by and division by t <br> 4.6. Derive formulae of inverse L.T. and explain method of partial fractions . <br> 4.7. solve problem on 4.1-4.6 | 12 | $\begin{gathered} 08 \text { JAN } 2022 \\ \text { To } \\ 17 \text { JAN } 2022 \end{gathered}$ |  |




Electronics \& TC. Engg. Gandhi School of Engg.

Berhampur (Gm.)

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