



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to University of Mumbai)

Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

Phone : (022) 6711 4000, 6711 4101, 6711 4104

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Course Lesson Plan

| Sr. No. | Proposed Date | Actual Date | Topics | CO | Teacher's Remark | HOD's Remark |
|---------|---------------|-------------|---|--------------|------------------|--------------|
| 1 | 18-07-2023 | 18-7-23 | Laplace transform: Definition, Laplace transform of standard functions | CSC301.1 | | |
| 2 | 20-07-2023 | 20-7-23 | Laplace transform of functions that are reducible to standard functions | CSC301.1 | | |
| 3 | 21-07-2023 | 21-7-23 | Properties of Laplace transform | CSC301.1 | | |
| 4 | 25-07-2023 | 25-7-23 | Examples based on the properties | CSC301.1 | | |
| 5 | 27-07-2023 | 28-7-23 | Examples based on the properties | CSC301.1 | | |
| 6 | 28-07-2023 | 01-8-23 | Evaluation of real integral using Laplace transform | CSC301.1 | | |
| 7 | 01-08-2023 | 3-8-23 | Inverse Laplace transform: Definition, formulas, and properties | CSC301.2 | | |
| 8 | 03-08-2023 | 4-8-23 | Inverse Laplace transform using the method of partial fraction | CSC301.2 | | |
| 9 | 04-08-2023 | 10-8-23 | Inverse Laplace transform using the method of partial fraction | CSC301.2 | | |
| 10 | 08-08-2023 | 11-8-23 | Inverse Laplace transform using the convolution method | CSC301.2 | | |
| 11 | 10-08-2023 | 11-8-23 | Inverse Laplace transform using the convolution method | CSC301.2 | | |
| 12 | 11-08-2023 | 17-8-23 | Inverse Laplace transform using derivative | CSC301.2 | | |
| | 15-08-2023 | | Independence Day | | | |
| 13 | 17-08-2023 | 18-8-23 | Fourier series: Introduction, Dirichlet's condition, expansion of a function over the interval of length 2 pi | CSC301.3 | | |
| 14 | 18-08-2023 | 22-8-23 | Expansion of function over the interval of length 2l | CSC301.3 | | |
| 15 | 22-08-2023 | 24-8-23 | Fourier series of even and odd functions | CSC301.3 | | |
| 16 | 24-08-2023 | 25-8-23 | Half-range Fourier series | CSC301.3 | | |
| 17 | 25-08-2023 | 25-8-23 | Parseval's identity | CSC301.3 | | |
| | 29-08-2023 | | Unit Test-1 | CSC301.1,2,3 | | |
| 18 | 31-08-2023 | 31-8-23 | The function of a complex variable | CSC301.4 | | |
| 19 | 01-09-2023 | 1-9-23 | Analytic function: Necessary and sufficient condition | CSC301.4 | | |

Wkly Reason



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|----|-------------------|----------|--|---------------------|------|------------|
| 20 | 05-09-2023 | 5-9-23 | Examples of analytic function | CSC301.4 | 7/9 | Tests |
| 21 | 07-09-2023 | 8-9-23 | Harmonic functions, Milne-Thomson method | CSC301.4 | 7/9 | Tests |
| 22 | 08-09-2023 | 14-9-23 | Orthogonal trajectory | CSC301.4 | | |
| 23 | 12-09-2023 | 15-9-23 | Karl Pearson's coefficient of correlation | CSC301.5 | | |
| 24 | 14-09-2023 | 15-9-23 | Spearman's Rank correlation coefficient (R) (with repeated and non-repeated ranks) | CSC301.5 | | |
| 25 | 15-09-2023 | 26-9-23 | Lines of regression | CSC301.5 | | |
| | 19-09-2023 | | Shri Ganesh Chaturthi | | | |
| 26 | 21-09-2023 | 3-10-23 | Fitting of first- and second-degree curves. | CSC301.5 | | |
| 27 | 22-09-2023 | 5-10-23 | Basics of probability and conditional probability | CSC301.6 | | |
| 28 | 26-09-2023 | 6-10-23 | Bayes' theorem and examples based on it | CSC301.6 | | |
| | 28-09-2023 | | Anant Chaturdashi | | | |
| 29 | 29-09-2023 | 17-10-23 | Discrete and continuous random variable, probability distribution function, probability density function | CSC301.6 | 24/9 | Tests |
| 30 | 03-10-2023 | 24-10-23 | Mean and variance of a random variable | CSC301.6 | | |
| 31 | 05-10-2023 | 26-10-23 | Mean and variance of a random variable | CSC301.6 | | |
| 32 | 06-10-2023 | 27-10-23 | Moment generating function, Raw and central moment up to order four | CSC301.6 | | |
| | 10-10-2023 | | Unit Test-2 | CSC301.4,5,6 | | |
| 33 | 12-10-2023 | 27-10-23 | Remedial class (Revision) | | | (Revision) |
| 34 | 13-10-2023 | | Remedial class | | | |
| 35 | 17-10-2023 | | Remedial class | | | |
| | 24-10-2023 | | Dasara | | | |
| | | | University ESE Examination | | | |



SOCIETY OF ST. FRANCIS XAVIER, PILARS
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Text Books:

1. Engineering Mathematics III by G.V. Kumbhojkar, J. Jannadas Publication

Reference Books:

1. Advance Engineering Mathematics by O'Neil, Cengage Publication
2. Advance Engineering Mathematics by H.K. Dass, S. Chand & Company Limited
3. Advance Engineering Mathematics by Erwin Kreyszig, Wiley Publication

Course Instructor: Prof Prasad Lalit