

Lesson Plan

Name of the Assistant/ Associate Professor... Miss. Yatika.....

Class and Section: ... B.Sc. I. (Sem. II).....

Subject: Ordinary Differential Equation and Trigonometry (Mathematics)

| Week | Date | Topics |
|-----------|-----------|--|
| 1 | 1-Jan-18 | Introduction to Diff. equation |
| | 2-Jan-18 | Exact diff. equation |
| | 3-Jan-18 | - do - |
| | 4-Jan-18 | Integrating factor |
| | 5-Jan-18 | Holiday |
| | 6-Jan-18 | Rules for finding Integrating factor (Rule-1, Rule-2) |
| | 7-Jan-18 | Sunday |
| 2 | 8-Jan-18 | - do - |
| | 9-Jan-18 | Rule-3 (examples) |
| | 10-Jan-18 | Rule-4 |
| | 11-Jan-18 | Rule-5 |
| | 12-Jan-18 | - do - |
| | 13-Jan-18 | Test |
| | 14-Jan-18 | Sunday |
| 3 | 15-Jan-18 | Equation of first Order but not of first Degree (Introduction) |
| | 16-Jan-18 | - do - |
| | 17-Jan-18 | Equation solvable for y |
| | 18-Jan-18 | Equation solvable for x |
| | 19-Jan-18 | Lagrange's Equation, Clairaut's Equation |
| | 20-Jan-18 | - do - |
| | 21-Jan-18 | Sunday |
| 4 | 22-Jan-18 | Vasant Panchami |
| | 23-Jan-18 | Singular solution |
| | 24-Jan-18 | Sir Chhotu Ram Jayanti |
| | 25-Jan-18 | - do - |
| | 26-Jan-18 | Republic Day |
| | 27-Jan-18 | Test |
| | 28-Jan-18 | Sunday |
| | 5 | 29-Jan-18 |
| 30-Jan-18 | | - do - |
| 31-Jan-18 | | Holiday |

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| Week | Date | Topics |
|------|-----------|---|
| 1 | 1-Feb-18 | Linear differential Equation with constant Co-efficients. |
| | 2-Feb-18 | A.O.F, Complete Solution |
| | 3-Feb-18 | Complementary fun. & particular Integral (Case I) |
| | 4-Feb-18 | Sunday |
| 2 | 5-Feb-18 | Case II |
| | 6-Feb-18 | Case III |
| | 7-Feb-18 | Case IV |
| | 8-Feb-18 | Case V |
| | 9-Feb-18 | -do- |
| | 10-Feb-18 | Maharshi Dayanand Saraswati Jayanti |
| | 11-Feb-18 | Sunday |
| 3 | 12-Feb-18 | Test |
| | 13-Feb-18 | Maha Shivratri |
| | 14-Feb-18 | Homogeneous Linear Equations (Introduction) |
| | 15-Feb-18 | -do- |
| | 16-Feb-18 | Equation Reducible to homogeneous linear form. |
| | 17-Feb-18 | -do- |
| | 18-Feb-18 | Sunday |
| 4 | 19-Feb-18 | Test |
| | 20-Feb-18 | Linear diff. equations of 2nd Order. |
| | 21-Feb-18 | To solve by removing 1st derivative & changing the dependent variable |
| | 22-Feb-18 | To solve by changing independent variable |
| | 23-Feb-18 | By method of Variation parameter |
| | 24-Feb-18 | method of undetermined coefficients. |
| | 25-Feb-18 | Sunday |
| 5 | 26-Feb-18 | Test |
| | 27-Feb-18 | Ordinary simultaneous diff. eqn. |
| | 28-Feb-18 | Holiday |

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| Week | Date | Topics |
|-----------|-----------|--|
| 1 | 1-Mar-18 | Guru Ravidas Birthday |
| | 2-Mar-18 | Holi |
| | 3-Mar-18 | <u>Holiday</u> |
| | 4-Mar-18 | Sunday |
| 2 | 5-Mar-18 | Second Integral found with the help of the first |
| | 6-Mar-18 | <u>Test</u> |
| | 7-Mar-18 | Total diff. Eqn. (Introduction) |
| | 8-Mar-18 | -do- |
| | 9-Mar-18 | Method <u>II</u> |
| | 10-Mar-18 | Method <u>III</u> |
| | 11-Mar-18 | Sunday |
| 3 | 12-Mar-18 | -do- |
| | 13-Mar-18 | <u>Test</u> |
| | 14-Mar-18 | <u>doubt</u> |
| | 15-Mar-18 | De Moivre's Thm (Introduction) |
| | 16-Mar-18 | -do- |
| | 17-Mar-18 | <u>Practice</u> |
| | 18-Mar-18 | Sunday |
| | 4 | 19-Mar-18 |
| 20-Mar-18 | | Expansion of $\cos n\theta$ and $\sin n\theta$ in terms of $\cos \theta$ & $\sin \theta$ |
| 21-Mar-18 | | examples and exercise. |
| 22-Mar-18 | | Formation of equations |
| 23-Mar-18 | | Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev |
| 24-Mar-18 | | examples and exercise |
| 25-Mar-18 | | Sunday/ Ram Navami |
| 5 | | 26-Mar-18 |
| | 27-Mar-18 | exponential functions of a complex variable |
| | 28-Mar-18 | Euler's theorem and De Moivre's thm. |
| | 29-Mar-18 | Mahavir Jayanti |
| | 30-Mar-18 | examples and exercise. |
| | 31-Mar-18 | Hyperbolic functions. |

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| Week | Date | Topics |
|-----------|-----------|---|
| 1 | 1-Apr-18 | Sunday |
| | 2-Apr-18 | Separation into Real & Imaginary parts of Circular fun. |
| | 3-Apr-18 | Logarithm of complex Quantity |
| | 4-Apr-18 | example & exercise. |
| | 5-Apr-18 | Inverse Circular & Inverse hyperbolic fun. |
| | 6-Apr-18 | example |
| | 7-Apr-18 | exercise. |
| | 8-Apr-18 | Sunday |
| 2 | 9-Apr-18 | Gregory's series. |
| | 10-Apr-18 | Test. |
| | 11-Apr-18 | Summation of series (series of sines & cosines) |
| | 12-Apr-18 | example and exercise. |
| | 13-Apr-18 | Method of differences. |
| | 14-Apr-18 | Dr Ambedkar Jayanti / Vaisakhi |
| | 15-Apr-18 | Sunday |
| 3 | 16-Apr-18 | series depending upon the G.P or the Binomial series |
| | 17-Apr-18 | series depending on logarithmic series. |
| | 18-Apr-18 | Parashurama Jayanti |
| | 19-Apr-18 | Revision & doubt |
| | 20-Apr-18 | Test (Unit-I) |
| | 21-Apr-18 | Revision & doubt |
| | 22-Apr-18 | Sunday |
| | 4 | 23-Apr-18 |
| 24-Apr-18 | | Test (Unit-II, III) |
| 25-Apr-18 | | Revision & doubt |
| 26-Apr-18 | | Test (Unit-IV) |
| 27-Apr-18 | | Revision & doubt |
| 28-Apr-18 | | Test (Trigo.) |