Lesson Plan (2023-24)-Even Semester

Name of the Assistant Professor: Dr. Ashish Class and Section: B.Sc. 1st year (2nd semester)

Subject: Number Theory and Trigonometry

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| **WEEK** | **DATE** | **TOPICS** |
| **1** | 15.01.2024 |  Divisibility  |
| 16.01.2024 |  GCD (Greatest Common Divisior) |
| **17.01.2024** | **Guru Gobind Singh Jayanti** |
| 18.01.2024 | LCM ( Least Common Multiple) |
| 19.01.2024 | Primes |
| 20.01.2024 | Revision |
| **2** | 22.01.2024 | Fundamental Theorem of Arithmetic |
| 23.01.2024 | Fundamental Theorem of Arithmetic |
| 24.01.2024 | Fundamental Theorem of Arithmetic |
| 25.01.2024 | Problem |
| **26.01.2024** | **Republic Day** |
| 27.01.2024 | Revision  |
| **3** | 29.01.2024 | Linear Congruence’s  |
| 30.01.2024 | Linear Congruence’s |
| 31.01.2024 | Fermat’s Theorem, |
| 01.02.2024 | Fermat’s Theorem, |
| 02.02.2024 | Wilson’s Theorem and its Converse |
| 03.02.2024 | Wilson’s Theorem and its Converse |
| **4** | 05.02.2024 | Linear Diophantine Equations in Two Variables  |
| 06.02.2024 | Linear Diophantine Equations in Two Variables |
| 07.02.2024 | Linear Diophantine Equations in Two Variables |
| 08.02.2024 | Complete Residue System |
| 09.02.2024 | Reduced Residue System Modulo m |
| 10.02.2024 | Problems |
| **5** | 12.02.2024 | Euler’s Function |

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|  | 13.02.2024 | Euler’s Generalizations of Fermat’s Theorem  |
| **14.02.2024** | **Basant Panchami/ Sir Chhotu Ram Jayanti** |
| 15.02.2024 | Euler’s Generalizations of Fermat’s Theorem |
| 16.02.2024 | Problems |
| 17.02.2024 | Test |
| **6** | 19.02.2024 | Chinese Remainder Theorem |
| 20.02.2024 | Chinese Remainder Theorem |
| 21.02.2024 | Quadratic Residues |
| 22.02.2024 | Quadratic Residues |
| 23.02.2024 | Revision  |
| **24.02.2024** | **Guru Ravidas Jayanti** |
| **7** | 26.02.2024 | Legendre Symbols |
| 27.02.2024 | Lemma of Gauss |
| 28.02.2024 | Gauss Reciprocity Law |
| 29.02.2024 | Greatest Integer Function |
| 01.03.2024 | Greatest Integer Function |
| 02.03.2024 | Revision |
| **8** | 04.03.2024 | The number of Divisors and the sum of divisors of Natural number n |
| 05.03.2024 | The number of Divisors and the sum of divisors of Natural number n |
| 06.03.2024 | The number of Divisors and the sum of divisors of Natural number n |
| 07.03.2024 | The number of Divisors and the sum of divisors of Natural number n |
| **08.03.2024** | **Maha Shivratri** |
| 09.03.2024 | Problems |
| **9** | 11.03.2024 | Mobius Functions and Mobius Inversion Formula  |
| 12.03.2024 | Mobius Functions and Mobius Inversion Formula |
| 13.03.2024 | Mobius Functions and Mobius Inversion Formula |
| 14.03.2024 | Mobius Functions and Mobius Inversion Formula |
| 15.03.2024 | Problem  |
| 16.03.2024 | Test |
| **10** | 18.03.2024 | De Moiver’s Theorem and its Applications |

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|  | 19.03.2024 | De Moiver’s Theorem and its Applications |
| 20.03.2024 | De Moiver’s Theorem and its Applications |
| 21.03.2024 | De Moiver’s Theorem and its Applications |
| 22.03.2024 | De Moiver’s Theorem and its Applications |
| **23.03.2024** | **Holi Vacation** |
| **11** | 25.03.2024 | **Holi Vacation** |
| 26.03.2024 | **Holi Vacation** |
| 27.03.2024 | **Holi Vacation** |
| 28.03.2024 | **Holi Vacation** |
| 29.03.2024 | **Holi Vacation** |
| 30.03.2024 | **Holi Vacation** |
| **12** | 01.04.2024 | Expansion of Trigonometry Functions  |
| 02.04.2024 | Expansion of Trigonometry Functions |
| 03.04.2024 | Expansion of Trigonometry Functions |
| 04.04.2024 | Direct Circular and Hyperbolic Functions and Their Properties |
| 05.04.2024 | Direct Circular and Hyperbolic Functions and Their Properties |
| 06.04.2024 | Direct Circular and Hyperbolic Functions and Their Properties |
| **13** | 08.04.2024 | Inverse Circular and Hyperbolic functions and their properites |
| 09.04.2024 | Inverse Circular and Hyperbolic functions and their properites |
| 10.04.2024 | Logarithm of a complex quantity  |
| **11.04.2024** | **Id-ul-Fitr** |
| 12.04.2024 | Logarithm of a complex quantity |
| 13.04.2024 | **Vaisakhi** |
| **14** | 15.04.2024 | Gregory’s Series. Summation of Trigonometry Series  |
| 16.04.2024 | Gregory’s Series. Summation of Trigonometry Series  |
| **17.04.2024** | **Ram Navmi** |
| 18.04.2024 | Revision |
| 19.04.2024 | Revision |
| 20.04.2024 | Revision |
| **15** | 22.04.2024 | Revision |
| 23.04.2024 | Revision |