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| Discipline : ELECTRICAL ENGG. | Semester: 3th Sem | Name of the Teaching Faculty : Zahid Akhtar |
| Subject : EEM | No. of Days / per week class allotted : 04 | From date : 01.08.2023 To Date : 30.11.2023 No. of Weeks : 15 |
| Week | Class Day | Topics |
| 01-08-2023 TO 03-08-2023 | 1st | Chapter 1 (CONDUCTING MATERIAL) 1. 1 Introduction |
| | 2nd | 1. 2 Resistivity, factors affecting resistivity |
| | 3rd | 1. 3 Classification of conducting materials into |
| 07-08-2023 TO 10-08-2023 | 1st | low-resistivity and high resistivity materials |
| | 2nd | 1. 4 Low Resistivity Materials |
| | 3rd | Application of copper |
| | 4th | Application of silver and gold |
| 14-08-2023 TO 17-08-2023 | 1st | Application of Aluminium and steel |
| | 2nd | 1. 5 Stranded conductors |
| | 3rd | 1. 6 Bundled conductors |
| 21-08-2023 TO 24-08-2023 | 1st | 1. 7 Low resistivity copper alloys |
| | 2nd | 1. 8 High Resistivity Materials and their Applications (Tungsten, Carbon, Platinum, Mercury) |
| | 3rd | 1. 9 Superconductivity |
| | 4th | 1. 10 Superconducting materials |
| 28-08-2023 TO 31-08-2023 | 1st | 1. 11 Application of superconductor materials |
| | 2nd | 1. 11 Application of superconductor materials |
| | 3rd | SEMICONDUCTING MATERIAL(CHAPTER 2) 2.1 Introduction |
| 04-09-2023 TO 07-09-2023 | 1st | 2. 2 Semiconductors |
| | 2nd | 2. 4 Excitation of Atoms |
| | 3rd | 2. 5 Insulators, Semiconductors and Conductors , Semiconductor Material 2.6 |
| 11-09-2023 TO 14-09-2023 | 1st | 2. 7 Covalent Bonds Intrinsic Semiconductor 2.8 |
| | 2nd | 2. 8 Intrinsic Semiconductors |
| | 3rd | 2. 9 Extrinsic Semiconductors 2. 10 N-Type Materials 2. 11 P-Type Materials |
| | 4th | 2. 12 Minority and Majority Carriers 2. 13 Semi-Conductor Materials |
| 18-09-2023 TO 21-09-2023 | 1st | 2.14 Application of rectifier, photo conducting cell, photo voltaic cell , varistors |
| | 2nd | hall effect generator, solar power. |
| 25-09-2023 TO 28-09-2023 | 1st | INSULATING MATERIAL(CHAPTER 3) Introduction, general property of insulating material 3.1 |
| | 2nd | electrical, visual, mechanical, thermal, chemical property, ageing |
| | 3rd | 3.3 Insulating Materials – Classification, properties, applications |
| | 4th | 3.3.1 Introduction |
| 03-10-2023 TO 05-10-2023 | 1st | 3.3.2 Classification of insulating materials on the basis physical structure |
| | 2nd | chemical structure. |
| | 3rd | 3.4 Insulating Gases |
| | 4th | |

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| 09-10-2023 TO 12-10-2023 | 1st | 3.4.1 Introduction. |
| | 2nd | 3.4.2 Commonly used insulating gases |
| | 3rd | DIELECTRIC MATERIAL(CHAPTER 4) 4.1 Introduction |
| | 4th | 4.2 Dielectric Constant of Permittivity |

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| 16-10-2023 TO 19-10-2023 | 1st | 4.3 Polarization |
| | 2nd | 4.4 Dielectric Loss |
| | 3rd | 4.5 Electric Conductivity of Dielectrics and their Break Down |
| | 4th | 4.6 Properties of Dielectrics. |

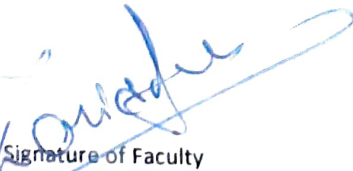
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| 30-10-2023 TO 02-11-2023 | 1st | 4.7 Applications of Dielectrics |
| | 2nd | 4.7 Applications of Dielectrics |
| | 3rd | MAGNETIC MATERIAL(CHAPTER 5) Introduction 5.1 |
| | 4th | 5.2 Classification 5.2.1 Diamagnetism |

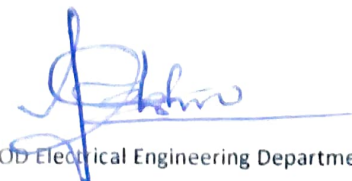
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| 06-11-2023 TO 09-11-2023 | 1st | 5.2.2 Para magnetism |
| | 2nd | 5.2.3 Ferromagnetism 5.3 magnetization curve |
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| | 3rd | 5.4 Hysteresis 5.5 Eddy current |
| | 4th | 5.6 Curie Point ,5.7 Magneto- striction |

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| 13-11-2023 TO 16-11-2023 | 1st | 5.8 Soft and Hard magnetic Materials |
| | 2nd | 5.8.1 Soft magnetic materials 5.8.2 Hard magnetic materials |
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| | 3rd | MATERIAL FOR SPECIAL PURPOSES(CHAPTER 6) Introduction 6.1 |
| | 4th | 6.2 Structural Materials |

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| 20-11-2023 TO 23-11-2023 | 1st | 6.3 Protective Materials |
| | 2nd | 6.3.1 Lead |
| | 3rd | 6.3.2 Steel tapes, wires and strips 6.4 Other Materials |
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| | 4th | 6.4.1 Thermocouple materials |

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| 28-11-2023 TO 30-11-2023 | 1st | 6.4.2 Bimetals |
| | 2nd | 6.4.3 Soldering Materials |
| | 3rd | 6.4.4 Fuse and Fuse materials. 6.4.5 Dehydrating material |


Signature of Faculty


Signature of HOD Electrical Engineering Department