

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
HYDERABAD CAMPUS
INSTRUCTION DIVISION
FIRST SEMESTER 2021-2022
Course Handout

Date: 27.07.2023

In addition to general handout for all courses appended to the time table, this portion gives further specific details regarding the course.

Course No.	: EEE F211, ECE F211, INSTR F211
Course Title	: ELECTRICAL MACHINES
Instructor-in-charge	: Dr. Alivelu M Parimi
Team of instructors	
Lecture	: Dr. Alivelu Manga Parimi, Dr. Ankur Bhattacharjee
Tutorial	: Dr. Alivelu M Parimi, Dr. Ankur Bhattacharjee, Dr. Sudha Radhika
Practical	: Dr. Alivelu Manga Parimi, Dr. Ankur Bhattacharjee, PhD scholars

1. **Scope and objective of the Course:** To obtain an insight on the principles and performance of the Electrical Machines. To obtain a thorough knowledge on the performance and control of transformers, induction machines, dc machines, synchronous machines during normal and extreme working conditions.

Transformer: Constructional features, Equivalent circuit and phasor diagram, Regulation and efficiency, Parallel operation, Three phase transformer connections, Testing - open circuit, short circuit and Sumpner's test, Phase conversion – Scott Connection, Autotransformer.

DC Machines: Construction, principle of operation, armature windings, armature voltage and torque equations, classification and applications, DC generators- armature reaction and performance characteristics; DC motors - torque/speed characteristics, speed control and braking, Testing and efficiency.

Induction machines: Constructional features and classification, Rotating magnetic field, Equivalent circuit model, Steady state characteristics, Testing, starting and speed control, Wound rotor induction motors, Single phase induction motors - classification and equivalent circuit.

Synchronous machines: Constructional features and classification, Synchronous generators and motors, Armature Reaction, Equivalent circuit and phasor diagram, Power and torque characteristics, Parallel operation, Synchronous impedance and its determination, Starting and speed control of synchronous motors.

2. **Text Book :**

1. Nagrath I J and D P Kothari - Electric Machines – Tata McGraw Hill, 4th edition, 2010.
2. Electrical Machines Laboratory Manual.

3. **Reference Books :**

1. Edward Hughes, Electrical and Electronics Technology, Pearson, 5th edition 2012
2. Stephen J. Chapman, Electric Machinery Fundamentals, McGraw Hill , 4th Edition , 2005
3. P.C. Sen, Principles of Electric Machines and Power Electronics, John Wiley & Sons , 2nd Edition 1996
4. M.G. Say – Performance and Design of AC machines –Pitman

4. **Course Plan :**

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Marshall Monroe Kirkman



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Programme of the Courses of Instruction Massachusetts Institute of Technology, 1922 *USAF Formal Schools* United States. Department of the Air Force, 1987 **The Electrical Review** ,1884 *Electricity Applied to Railways...* Marshall Monroe Kirkman, 1910 **The Telegraphic Journal and Electrical Review** ,1884 *Electrical World* ,1883 **The Government Class Book, a Manual of Instruction in the Principles of Constitutional Government and Law ...** Andrew White Young, 1900 **The Engineering Index** John Butler Johnson, 1896 *Science of Railways: Electricity applied to railways. 1910* Marshall Monroe Kirkman, 1910 **The Law of Nations; Or, Principles of the Law of Nature : Applied to the Conduct and Affairs of Nations and Sovereigns. By M. de Vattel ... Translated from the French** Emerich de Vattel, 1792 The Electrical Journal ,1881 Proceedings of the American Institute of Electrical Engineers ,1914 Vols for 1887 1946 include the preprint pages of the institute s Transactions *Transactions of the American Institute of Electrical Engineers* ,1914 **Applications of Spreadsheets in Education** Mark A. Lau, Stephen J. Sugden, 2011-09-20 This e book is devoted to the use of spreadsheets in the service of education in a broad spectrum of disciplines science mathematics engineering business and general education The effort is aimed at collecting the works of prominent researchers and *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **The Electrical Engineer** ,1910 **General Alumni Catalogue: College, applied science, and honorary alumni, 1833-1905** New York University, 1906 **Proceedings of the American Institute of Electrical Engineers** American Institute of Electrical Engineers, 1914 *The Electrician* ,1881 **Books in Series** ,1982 Vols for 1980 issued in three parts Series Authors and Titles

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