

Scheme of Study

I Semester (25 Credits)

Course Code

Course Name

No of Contact

Hour / Weeks

Credits

L

T

P

MPOS101R02

Optimization Techniques

3

1

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4

MPOS102R01

Modeling and Simulation of Power

System components

3

1

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4

MPOS103R01

Advanced Power System Analysis

3

1

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4

MPOS104R01

System Theory

3

1

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4

MPOS105R01

Power Electronics

3

1

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4

MPOS106EXX

Department Elective- I

3

1

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4

MPOS107

Power System Laboratory - I

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2

1

Total

18

6

2

25

List of Department Electives- I

MPOS106E02 - Transients in Power Systems

MPOS106EXX - Power Quality

MPOS106EXX - Integrated Energy Management

MPOS106EXX - Robust and adaptive control

II Semester (27 Credits)

Course Code

Course Name

No of Contact

Hour / Weeks

Credits

L

T

P

MPOS201R01

Power System Operation and Control

3

1

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4

MPOS202R02

High Voltage Engineering

3

1

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4

MPOS203R02

Power System Stability

3

1

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4

MPOS204R02

Power System Planning and Reliability

3

1

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4

MPOS205

FACTS and HVDC

3

1

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4

MPOS206EXX

Department Elective- II

3

1

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4

MPOS207R01

Power System Laboratory – II

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2

1

MPOS208

Mini Project

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4

2

Total

18

6

6

27

List of Department Electives- II

MPOS206E02 - Electrical Distribution System

MPOS206EXX - EHVAC Power Transmission

MPOS206EXX - Digital Signal Processing and its Applications

MPOS206EXX - Intelligent Computing Techniques

III Semester (17 Credits)

Course Code

Course Name

No of Contact

Hour / Weeks

Credits

L

T

P

MPOS301R03

Power System Restructuring

3

1

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4

MPOS302EXX

Department Elective - III

3

1

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4

MPOS303EXX

Department Elective –IV

3

1

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4

MPOS304R02

Seminar

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2

1

MPOS305R01

Project Work Phase – I

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8

4

Total

9

3

10

List of Department Electives- III

MPOS303E04	-	Wind and Solar Energy Systems
MPOS302EXX	-	Advanced Power System Protection
MPOS302EXX	-	Illumination Engineering
MPOS302EXX	-	Embedded Processors

List of Department Electives- IV

MPOS302E09R01	-	Testing of Power Apparatus
MPOS303EXX	-	Industrial Management

MPOS303EXX - Evolutionary Computing Techniques

MPOS303EXX - Probability Random variables and Stochastic Processes

IV Semester (12 Credits)

Course Code

Course Name

No of Contact Hours / Week

Credits

L

T

P

MPOS401R01

Project Phase – II

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12