

Department of Electrical Engineering, Faculty of Engineering & Technology

Program Name: M. Tech.-Power System (2016-17)

SCHEME OF TEACHING AND EVALUATION

Semester-I

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MBM 204	Research Methodology	3	-	-	3
MEE101	Computer Aided Analysis of Power System	3	1	-	3.5
MEE102	Power System Operation and Control	3	1	-	3.5
MEE 103	Restructuring of Power System Network	3	-	-	3
	Elective- I	3	-	-	3
MEE 104	Computer Aided Analysis of Power System lab	-	-	4	2
MEE 105	Seminar-I (Review of Literature)	-	-	4	2
	Total	15	2	8	20

Semester-II

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MGT 103	Project Formulation and Appraisal Techniques	3		-	3
MEE 201	Distributed Generation & Control	3	1	-	3.5
MAT 156	Advance Mathematics	3	1	-	3.5
	Elective -II	3		-	3
	Elective - III	3	-	-	3
MEE 202	Power System Simulation Lab	-	-	4	2
MEE 203	Seminar-II (Review of Literature)			4	2
	Total	15	2	8	20

Semester-III

Course Code	Course	Hrs./Week			Credits
		L	T	P	
MEE 301	Internship			-	4
MEE 302	Dissertation part - I	-	-	-	8
MEE 303	Seminar-III (Review of Literature)	-	-	-	2
	Total			-	14

Semester-IV

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MEE 401	Dissertation Part –II	-	-	-	16
	Total				16

ELECTIVE I

- MEE 106 Modern Protection Methods
- MEE 107 Reactive Power Control and Facts
- MEE 108 AI Application to Power Systems
- MEE 109 Renewable Energy System

ELECTIVE II

- MEE 204 Power Quality Monitoring
- MEE 205 Power System Planning Reliability & Economic Operations
- MEE 206 Soft Computing Techniques
- MEE 207 Power System- Networks and Utility

ELECTIVE III

- MEE 208 Modern Control Theory
- MEE 209 Power System Monitoring and Scada System
- MEE 210 Modeling and Analysis of Electrical Machines

S. No.	Category of Courses	Category Codes	Number of Courses	Credit
1	Professional Core Credits	PC	7	21
2	Professional Elective Core Credit	PE	3	9
3	Project Credit	PR	1	4
4	Seminar & training Credit	ST	5	30
5	Open Elective Credit	OE	0	0
6	Basic Science Credit	BS	1	3
7	Engineering Science Credit	ES	0	0
8	HU/SS/MAN	HSM	1	3
	Total		18	70

Category Codes	Number of Courses	Credit
Theory	10	32
Practice	8	38

Department of Electrical Engineering, Faculty of Engineering & Technology

Program Name: M. Tech.-Power System (2017-18)

SCHEME OF TEACHING AND EVALUATION

Semester-I

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MBM 204	Research Methodology	3	-	-	3
MEE101	Computer Aided Analysis of Power System	3	1	-	3.5
MEE102	Power System Operation and Control	3	1	-	3.5
MEE 103	Restructuring of Power System Network	3	-	-	3
	Elective- I	3	-	-	3
MEE 104	Computer Aided Analysis of Power System lab	-	-	4	2
MEE 105	Seminar-I (Review of Literature)	-	-	4	2
	Total	15	2	8	20

Semester-II

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MGT 103	Project Formulation and Appraisal Techniques	3		-	3
MEE 201	Distributed Generation & Control	3	1	-	3.5
MAT 156	Advance Mathematics	3	1	-	3.5
	Elective -II	3		-	3
	Elective - III	3	-	-	3
MEE 202	Power System Simulation Lab	-	-	4	2
MEE 203	Seminar-II (Review of Literature)			4	2
	Total	15	2	8	20

Semester-III

Course Code	Course	Hrs./Week			Credits
		L	T	P	C
MEE 301	Internship			-	4
MEE 302	Dissertation part - I	-	-	-	8
MEE 303	Seminar-III (Review of Literature)	-	-	-	2
	Total			-	14

Semester-IV

Course Code	Course	Hrs/Week			Credits
		L	T	P	C
MEE 401	Dissertation Part –II	-	-	-	16
	Total				16

ELECTIVE I

- MEE 106 Modern Protection Methods
- MEE 107 Reactive Power Control and Facts
- MEE 108 AI Application to Power Systems
- MEE 109 Renewable Energy System

ELECTIVE II

- MEE 204 Power Quality Monitoring
- MEE 205 Power System Planning Reliability & Economic Operations
- MEE 206 Soft Computing Techniques
- MEE 207 Power System- Networks and Utility

ELECTIVE III

- MEE 208 Modern Control Theory
- MEE 209 Power System Monitoring and Scada System
- MEE 210 Modeling and Analysis of Electrical Machines

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1	Professional Core Credits	PC	7	21
2	Professional Elective Core Credit	PE	3	9
3	Project Credit	PR	1	4
4	Seminar & training Credit	ST	5	30
5	Open Elective Credit	OE	0	0
6	Basic Science Credit	BS	1	3
7	Engineering Science Credit	ES	0	0
8	HU/SS/MAN	HSM	1	3
	Total		18	70

Category Codes	Number of Courses	Credit
Theory	10	32
Practice	8	38

Department of Electrical Engineering, Faculty of Engineering & Technology

Program Name: M. Tech.-Power System (2018-19)

SCHEME OF TEACHING AND EVALUATION

Semester-I

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MBM 204	Research Methodology	3	-	-	3
MEE101	Computer Aided Analysis of Power System	3	1	-	3.5
MEE102	Power System Operation and Control	3	1	-	3.5
MEE 103	Restructuring of Power System Network	3	-	-	3
	Elective- I	3	-	-	3
MEE 104	Computer Aided Analysis of Power System lab	-	-	4	2
MEE 105	Seminar-I (Review of Literature)	-	-	4	2
	Total	15	2	8	20

Semester-II

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MGT 103	Project Formulation and Appraisal Techniques	3		-	3
MEE 201	Distributed Generation & Control	3	1	-	3.5
MAT 156	Advance Mathematics	3	1	-	3.5
	Elective -II	3		-	3
	Elective - III	3	-	-	3
MEE 202	Power System Simulation Lab	-	-	4	2
MEE 203	Seminar-II (Review of Literature)			4	2
	Total	15	2	8	20

Semester-III

Course Code	Course	Hrs./Week			Credits
		L	T	P	
MEE 301	Internship			-	4
MEE 302	Dissertation part - I	-	-	-	8
MEE 303	Seminar-III (Review of Literature)	-	-	-	2
	Total			-	14

Semester-IV

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MEE 401	Dissertation Part –II	-	-	-	16
	Total				16

ELECTIVE I

- MEE 106 Modern Protection Methods
- MEE 107 Reactive Power Control and Facts
- MEE 108 AI Application to Power Systems
- MEE 109 Renewable Energy System

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- MEE 204 Power Quality Monitoring
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- MEE 206 Soft Computing Techniques
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- MEE 208 Modern Control Theory
- MEE 209 Power System Monitoring and Scada System
- MEE 210 Modeling and Analysis of Electrical Machines

S. No.	Category of Courses	Category Codes	Number of Courses	Credit
1	Professional Core Credits	PC	7	21
2	Professional Elective Core Credit	PE	3	9
3	Project Credit	PR	1	4
4	Seminar & training Credit	ST	5	30
5	Open Elective Credit	OE	0	0
6	Basic Science Credit	BS	1	3
7	Engineering Science Credit	ES	0	0
8	HU/SS/MAN	HSM	1	3
	Total		18	70

Category Codes	Number of Courses	Credit
Theory	10	32
Practice	8	38

Department of Electrical Engineering, Faculty of Engineering & Technology

Program Name: M. Tech.-Power System (2019-20)

SCHEME OF TEACHING AND EVALUATION

Semester-I

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MBM 204	Research Methodology	3	-	-	3
MEE101	Computer Aided Analysis of Power System	3	-	-	3
MEE102	Power System Operation and Control	3	-	-	3
MEE 103	Restructuring of Power System Network	3	-	-	3
	Elective- I	3	-	-	3
MEE 104	Computer Aided Analysis of Power System lab	-	-	4	2
MEE 105	Seminar-I (Review of Literature)	-	-	4	2
	Total	15	-	8	19

Semester-II

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MGT 103	Project Formulation and Appraisal Techniques	3	-	-	3
MEE 201	Distributed Generation & Control	3	-	-	3
MAT 156	Advance Mathematics	3	-	-	3
	Elective -II	3	-	-	3
	Elective - III	3	-	-	3
MEE 202	Power System Simulation Lab	-	-	4	2
MEE 203	Seminar-II (Review of Literature)	-	-	4	2
	Total	15	-	8	19

Semester-III

Course Code	Course	Hrs./Week			Credits
		L	T	P	C
MEE 301	Internship			-	4
MEE 302	Dissertation part - I	-	-	-	8
MEE 303	Seminar-III (Review of Literature)	-	-	-	2
	Total			-	14

Semester-IV

Course Code	Course	Hrs/Week			Credits
		L	T	P	C
MEE 401	Dissertation Part –II	-	-	-	16
	Total				16

ELECTIVE I

- MEE 106 Modern Protection Methods
- MEE 107 Reactive Power Control and Facts
- MEE 108 AI Application to Power Systems
- MEE 109 Renewable Energy System

ELECTIVE II

- MEE 204 Power Quality Monitoring
- MEE 205 Power System Planning Reliability & Economic Operations
- MEE 206 Soft Computing Techniques
- MEE 207 Power System- Networks and Utility

ELECTIVE III

- MEE 208 Modern Control Theory
- MEE 209 Power System Monitoring and Scada System
- MEE 210 Modeling and Analysis of Electrical Machines

S. No.	Category of Courses	Category Codes	Number of Courses	Credit
1	Professional Core Credits	PC	7	19
2	Professional Elective Core Credit	PE	3	9
3	Project Credit	PR	1	4
4	Seminar & training Credit	ST	5	30
5	Open Elective Credit	OE	0	0
6	Basic Science Credit	BS	1	3
7	Engineering Science Credit	ES	0	0
8	HU/SS/MAN	HSM	1	3
	Total		18	68

Category Codes	Number of Courses	Credit
Theory	10	30
Practice	8	38

Department of Electrical Engineering, Faculty of Engineering & Technology

Program Name: M. Tech.-Power System (2020-21)

SCHEME OF TEACHING AND EVALUATION

Semester-I

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MBM 204	Research Methodology	3	-	-	3
MEE101	Computer Aided Analysis of Power System	3	-	-	3
MEE102	Power System Operation and Control	3	-	-	3
MEE 103	Restructuring of Power System Network	3	-	-	3
	Elective- I	3	-	-	3
MEE 104	Computer Aided Analysis of Power System lab	-	-	4	2
MEE 105	Seminar-I (Review of Literature)	-	-	4	2
	Total	15	-	8	19

Semester-II

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MGT 103	Project Formulation and Appraisal Techniques	3	-	-	3
MEE 201	Distributed Generation & Control	3	-	-	3
MAT 156	Advance Mathematics	3	-	-	3
	Elective -II	3	-	-	3
	Elective - III	3	-	-	3
MEE 202	Power System Simulation Lab	-	-	4	2
MEE 203	Seminar-II (Review of Literature)	-	-	4	2
	Total	15	-	8	19

Semester-III

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MEE 301	Internship		-	-	4
MEE 302	Dissertation part - I	-	-	-	8
MEE 303	Seminar-III (Review of Literature)	-	-	4	2
	Audit Course -I	-	-	-	0
	Audit Course-II	-	-	-	0
	Total	-	-	4	14

Semester-IV

Course Code	Course	Hrs/Week			Credits
		L	T	P	
MEE 401	Dissertation Part –II	-	-	-	16
	Total				16

Electives:-

Program Elective-I

MEE 106	Modern Protection Methods
MEE 107	Reactive Power Control and Facts

MEE 108	AI Application to Power Systems
MEE 109	Renewable Energy System

Program Elective-III

MEE 208	Modern Control Theory
MEE 209	Power System Monitoring and Scada System
MEE 210	Modeling and Analysis of Electrical Machines

Program Elective-II

MEE 204	Power Quality Monitoring
MEE 205	Power System Planning Reliability & Economic Operations
MEE 206	Soft Computing Techniques
MEE 207	Power System- Networks and Utility

Audit Course I & II

AUD 101	English for Research Paper Writing
AUD102	Disaster Management
AUD 103	Sanskrit for Technical Knowledge
AUD 104	Value Education
AUD 105	Constitution of India

S. No.	Category of Courses	Category Codes	Number of Courses	Credit
1	Professional Core Credits	PC	7	19
2	Professional Elective Core Credit	PE	3	9
3	Project Credit	PR	1	4
4	Seminar & training Credit	ST	5	30
5	Open Elective Credit	OE	2	0
6	Basic Science Credit	BS	1	3
7	Engineering Science Credit	ES	0	0
8	HU/SS/MAN	HSM	1	3
	Total		20	68

Category Codes	Number of Courses	Credit
Theory	12	30
Practice	8	38