

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## II M.E. POWER ELECTRONICS

## SEMESTER - III

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE61901	Dissertation Phase-I	-	-	20	-	20	-	-	100	150	250
<b>Total</b>			0	0	20	0	20	0	0	100	150	250

## SEMESTER - IV

(Admitted before 2012)

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE 6196	Dissertation Phase-II	-	-	22	-	22	-	-	160	240	400
<b>Total</b>			0	0	22	0	22	0	0	160	240	400

(Admitted in 2012-2016)

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE 6194	Dissertation Phase-II	-	-	30	-	30	-	-	160	240	400
<b>Total</b>			0	0	30	0	30	0	0	160	240	400

(Admitted in and after 2017)

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE61951	Dissertation Phase-II	-	-	30	-	30	-	-	160	240	400
<b>Total</b>			0	0	30	0	30	0	0	160	240	400

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## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## J I M.E. POWER SYSTEM &amp; CONTROL

## SEMESTER - III

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE63901	Dissertation Phase-I	-	-	20	-	20	-	-	100	150	250
<b>Total</b>			0	0	20	0	20	0	0	100	150	250

## SEMESTER - IV

(Admitted in and after 2017)

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE63951	Dissertation Phase-II	-	-	30	-	30	-	-	160	240	400
<b>Total</b>			0	0	30	0	30	0	0	160	240	400

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE  
M.TECH Power Electronics

• SEMESTER - I

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	MAXIMUM MARKS				
			L	T	P			TH	CW	SW	Pr.	Total
1	MA60025	Advanced Engineering Mathematics	3	-	-	3	-	70	30	-	-	100
2	EE60024	Advanced Control Systems	3	-	-	3	-	70	30	-	-	100
3	EE61003	Advanced DC/AC Inverters	3	-	-	3	-	70	30	-	-	100
4		Elective - I	3	-	-	3	-	70	30	-	-	100
5		Elective - II	3	-	-	3	-	70	30	-	-	100
6	EE61453	Lab-I	-	-	2	-	1	-	-	40	60	100
7	EE61454	Lab-II	-	-	2	-	1	-	-	40	60	100
8	EE61455	Lab- III	-	-	4	-	2	-	-	-	50	50
9	EE61499	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
<b>Total</b>			15	0	8	15	4	350	150	80	170	750

I Semester = 19 - 21 Credits

SEMESTER - II

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	MAXIMUM MARKS				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE61613	Integrated Power Electronics Converters	3	-	-	3	-	70	30	-	-	100
2	EE61614	Solid State Control of Electrical Drives	3	-	-	3	-	70	30	-	-	100
3	EE61612	Power Electronics Supply Systems & Design	3	-	-	3	-	70	30	-	-	100
4		Elective - III	3	-	-	3	-	70	30	-	-	100
5		Elective - IV	3	-	-	3	-	70	30	-	-	100
6	EE61853	Term Paper	-	-	2	-	1	-	-	50	50	100
7	EE61854	Lab-IV	-	-	2	-	1	-	-	40	60	100
8	EE61855	Minor Project & Lab. -V	-	-	4	-	2	-	-	40	60	100
9	EE61899	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
<b>Total</b>			15	0	8	15	4	350	150	130	120	800

July  
2021

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**  
**M.TECH Power Electronics**  
**List of Electives**

Elective I		Semester I
S.No	Subject Code	Subject
1 ✓	EE61201	Digital System Design
2	EE61203	Components in Power Electronics
3	EE61202	Optimization Algorithms

Elective II		Semester I
S.No	Subject Code	Subject
1	EE61301	Neural Computing System and Applications
2	EE61302	AC Controllers
3 ✓	EE61303	Reliability Engg.

Elective III		Semester II
S.No	Subject Code	Subject
1	EE61709	Off-grid Wind Energy Conversion Systems
2	EE61710	Power Electronics Applications to Power System
3 ✓	EE61711	Digital Signal Processing

Elective IV		Semester II
S.No	Subject Code	Subject
1	EE61751	HVDC Engineering
2 ✓	EE61752	Embedded System Programming
3	EE61753	Control of Grid Interfaced Renewable Energy Conversion Systems

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## M.TECH. Power System and Control

## SEMESTER - I

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	MAXIMUM MARKS				
			L	T	P			TH	CW	SW	Pr.	Total
1	MA60025	Advanced Engineering Mathematics	3	-	-	3	0	70	30	-	-	100
2	EE60024	Advanced Control System	3	-	-	3	0	70	30	-	-	100
3	EE63011	Power System Operation and Control	3	-	-	3	0	70	30	-	-	100
4		Elective - I	3	-	-	3	0	70	30	-	-	100
5		Elective - II	3	-	-	3	0	70	30	-	-	100
6	EE63453	Lab - I	-	-	2	-	1	-	-	40	60	100
7	EE63454	Lab - II	-	-	2	-	1	-	-	40	60	100
8	EE63455	Lab - III	-	-	4	-	2	-	-	-	50	50
9	EE63499	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
<b>Total</b>			15	0	8	15	4	350	150	80	170	750

I Semester = 19 - 21 Credits

## SEMESTER - II

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	MAXIMUM MARKS				
			L	T	P			TH	CW	SW	Pr.	Total
1	EE63505	Digital Protection of Power System	3	-	-	3	-	70	30	-	-	100
2	EE63513	Power System Planning & Reliability	3	-	-	3	-	70	30	-	-	100
3	EE63506	Power Distribution System	3	-	-	3	-	70	30	-	-	100
4		Elective - III	3	-	-	3	-	70	30	-	-	100
5		Elective - IV	3	-	-	3	-	70	30	-	-	100
6	EE63853	Term Paper	-	-	2	-	1	-	-	50	50	50
7	EE63854	Lab - IV	-	-	2	-	1	-	-	40	60	50
8	EE63855	Minor Project & Lab - V	-	-	4	-	2	-	-	40	60	100
9	EE63899	Comprehensive Viva	-	-	-	-	-	-	-	-	-	Grade
<b>Total</b>			15	0	8	15	4	350	150	130	170	700

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## M.TECH. Power System and Control

## List of Electives

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Elective I		Semester I
S.No	Subject Code	Subject
1 ✓	EE63201	Power Electronics Application to Power System
2	EE63202	HVDC Transmission System
3	EE63203	Dynamic Modeling and control of sustainable energy systems

Elective II		Semester I
S.No	Subject Code	Subject
1	EE63301	Power System Deregulation
2 ✓	EE63302	<del>Advanced Power System Optimization</del>
3	EE63303	Power System Transients

Digital Systems Design

Elective III		Semester II
S.No	Subject Code	Subject
1	EE63706	Digital Control System
2 ✓	EE63707	Advanced Power System Optimization
3	EE63708	Power System Transients

Elective IV		Semester II
S.No	Subject Code	Subject
1 ✓	EE63751	Power Quality
2	EE63752	Distributed Generation and Smart Grid
3	EE63753	Renewable Power Generation Sources