VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Department (Power electronics and electrical drives)

Semester:-1st

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	1	1st	English for Research Paper Writing	Electrical		2	0	0	1	1	2	0	0	2	2	0	2
	2		Stress Management by Yoga	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	3		Research Methodology and IPR	Electrical		1	0	2	1	1	1	0	2	3	1	2	3
	4		Power Electronics Converters and Applications	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	5		Modelling And Analysis Of Electrical Machines	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	6		Switched Mode And Resonant Converters	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	7		Digital Signal Processing	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
														TOTAL	**15**	**14**	**29**

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Department (Power electronics and electrical drives)

Semester:-3rd

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	1	3rd	Internal Review 1	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	2		Dissertation Phase I	Electrical		0	0	16	1	1	0	0	16	16	0	16	16
	3		Industrial Safety	Electrical		3	0	0	1	1	3	0	0	3	3	0	3
	4		Application of Power Electronics in Power S	Electrical		3	0	0	1	1	3	0	0	3	3	0	3
														TOTAL	6	20	26

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Department (Power electronics and electrical drives)

Semester:-2nd

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	1	2nd	English for Research Paper Writing	Electrical		2	0	0	1	1	2	0	0	2	2	0	2
	2		Stress Management by Yoga	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	3		Mini Project with Seminar	Electrical		0	0	4	1	1	0	0	4	4	0	2	2
	4		Distributed Generation	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	5		Advanced Electrical Machines	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	6		Digital Control Of Power Electronic Systems	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	7		Solid State AC Drives	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
														TOTAL	14	14	28

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Department (Power electronics and electrical drives)

Semester:- 4th

	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
DEPT	1	4th	Internal Review - 2	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	2		Dissertation Phase-II	Electrical		0	0	28	1	1	0	0	28	28	0	28	28
														TOTAL	0	32	32

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Engineering Department

Semester:- 1st

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	1	1st	English for Research Paper Writing	Electrical		2	0	0	1	1	2	0	0	2	2	0	2
	2		Stress Management by Yoga	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	3		Research Methodology and IPR	Electrical		1	0	2	1	1	1	0	2	3	1	2	3
	4		Power System Analysis	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	5		Power Electronics Converters and Applicati	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	6		Renewable Energy Systems	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	7		Electric Power Distribution System	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
														TOTAL	15	14	29

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Engineering Department

Semester:- 3rd

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	1	3rd	Internal Review 1	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	2		Dissertation Phase I	Electrical		0	0	16	1	1	0	0	16	16	0	16	16
	3		Industrial Safety	Electrical		3	0	0	1	1	3	0	0	3	3	0	3
	4		Advanced Electric Drives	Electrical		3	0	0	1	1	3	0	0	3	3	0	3
TOTAL															6	20	26

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Engineering Department

Semester:- 2nd

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	1	2nd	English for Research Paper Writing	Electrical		2	0	0	1	1	2	0	0	2	2	0	2
	2		Stress Management by Yoga	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	3		Mini Project with Seminar	Electrical		0	0	4	1	1	0	0	4	4	0	2	2
	4		Modeling And Analysis Of Electrical Machines	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	5		Digital Control & Its Applications	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	6		Wind & Solar Power System	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
	7		High Voltage Direct Current Transmission	Electrical		3	0	2	1	1	3	0	2	5	3	2	5
														TOTAL	14	14	28

VIDHYADEEP INSTITUTE OF ENGINEERING AND TECHNOLOGY, ANITA. (KIM)

Work load Calculation of Master Of Electrical Engineering Department

Semester:-4th

DEPT	Sr. No.	Sem	Subject	Concern Branch	No. of Students	Teaching scheme			Division	Batches	Total workload				L	P or T	TOTAL
						L	T	P			L	T	P	Grand Total			
	2		Internal Review - 2	Electrical		0	0	4	1	1	0	0	4	4	0	4	4
	3		Dissertation Phase-II	Electrical		0	0	28	1	1	0	0	28	28	0	28	28
TOTAL															0	32	32

VIDHYADEEP UNIVERSITY

PROPOSED MODEL CURRICULUM
of
Engineering & Technology PG Courses
Electrical Engineering

SEMESTER / YEAR		M. TECH - 1 SEM - 1												
Sr. No.	Subject Code	Subject Name	Sub. Category	Teaching Scheme (Hrs/Week)					Examination Scheme					
									External Marks		Internal Marks			Total Marks
				L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	
1		English for Research Paper Writing	Audit - I	1	1	0	2	0	0	0	60	40	0	100
2		Research Methodology and IPR		1	1	0	2	2	0	0	30	70	0	100
3		Power System Analysis	CORE - I	3	0	0	3	3	60	0	0	40	0	100
4		Program Elective - I	PE - I	3	0	0	3	3	60	0	0	40	0	100
5		Program Elective - II	PE - II	3	0	0	3	3	60	0	0	40	0	100
6		Power Electronics Converters and Applications	CORE - II	3	0	0	3	3	60	0	0	40	0	100
7		Power System Analysis LAB	CORE - I LAB	0	0	2	2	1	0	30	0	0	20	50
8		Program Elective - I LAB	PE - I LAB	0	0	2	2	1	0	30	0	0	20	50
9		Program Elective - II LAB	PE - II LAB	0	0	2	2	1	0	30	0	0	20	50
10		Power Electronics Converters and Applications LAB	CORE - II LAB	0	0	2	2	1	0	30	0	0	20	50
Total				**14**	**2**	**8**	**24**	**18**	**240**	**120**	**90**	**270**	**80**	**800**

STUDENT HAS TO CHOOSE MINIMUM TWO SUBJECTS FROM PROGRAM ELECTIVE GROUP ALONG WITH IT'S LABORATORY.

Sr. No.	Subject Code	Subject Name	Sub. Category	L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	Total Marks
1		Digital Protection	PE - I											
2		**Renewable Energy Systems**	**PE - I**											
3		Power Quality	PE - I											
4		Smart Grid	PE - I											
5		Electric & Hybrid Vehicles	PE - I											
6		Mathematical Methods For Power Engineering	PE - II											
7		**Electric Power Distribution System**	**PE - II**											
8		AI Techniques	PE - II											

9		Modeling & Analysis Of Power Converters	PE - II											
10		Electrical Drives	PE - II											

SEMESTER / YEAR		M. TECH - 1 SEM - 2												
Sr. No.	Subject Code	Subject Name	Sub. Category	Teaching Scheme (Hrs/Week)					Examination Scheme					
									External Marks		Internal Marks			Total Marks
				L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	
1		Pedagogy Studies	Audit - II	2	0	0	2	0	0	0	60	40	0	100
2		Mini Project with Seminar		0	0	4	4	2	0	30	0	0	20	50
3		Modeling And Analysis Of Electrical Machines	CORE - III	3	0	0	3	3	60	0	0	40	0	100
4		Digital Control & Its Applications	CORE - IV	3	0	0	3	3	60	0	0	40	0	100
5		Program Elective - III	PE - III	3	0	0	3	3	60	0	0	40	0	100
6		Program Elective - IV	PE - IV	3	0	0	3	3	60	0	0	40	0	100
7		Modeling And Analysis Of Electrical Machines	CORE - III LAB	0	0	2	2	1	0	30	0	0	20	50
8		Digital Control & Its Applications	CORE - IV LAB	0	0	2	2	1	0	30	0	0	20	50
9		Program Elective - III LAB	PE - III LAB	0	0	2	2	1	0	30	0	0	20	50
10		Program Elective - IV LAB	PE - IV LAB	0	0	2	2	1	0	30	0	0	20	50
Total				**14**	**0**	**12**	**26**	**18**	**240**	**150**	**60**	**200**	**100**	**750**

STUDENT HAS TO CHOOSE MINIMUM TWO SUBJECTS FROM PROGRAM ELECTIVE GROUP ALONG WITH IT'S LABORATORY.

Sr. No.	Subject Code	Subject Name	Sub. Category	L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	Total Marks
1		**Wind & Solar Power System**	**PE - III**											
2		Restructured Power System	PE - III											
3		High Power Converters	PE - III											
4		Switched Mode Power Converters	PE - III											
5		Advanced Microcontroller Based Systems	PE - III											
6		SCADA System & Applications	PE - IV											
7		PWM forPower Converters	PE - IV											

8		Static Var Controllers & Harmonic Filters	PE - IV											
9		Dynamics Of Electrical Machines	PE - IV											
10		**High Voltage Direct Current Transmission**	**PE - IV**											

Sr. No.	Subject Code	Subject Name	Sub. Category	Teaching Scheme (Hrs/Week)					Examination Scheme					
									External Marks		Internal Marks			Total Marks
				L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	
1		Internal Review 1		0	0	4	4	2	0	30	0	0	20	50
2		Dissertation Phase I	Major Project	0	0	16	16	8	0	100	0	0	50	150
3		OPEN ELECTIVE	OE	3	0	0	3	3	60	0	0	40	0	100
4		Program Elective - V	PE - V	3	0	0	3	3	60	0	0	40	0	100
Total				**6**	**0**	**20**	**26**	**16**	**120**	**130**	**0**	**80**	**70**	**400**

STUDENT HAS TO CHOOSE MINIMUM TWO SUBJECTS FROM PROGRAM ELECTIVE & OPEN ELECTIVE GROUP.

Sr. No.	Subject Code	Subject Name	Sub. Category	L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	Total Marks
1		Power System Transients	PE - V											
2		Dynamics Of Linear Systems	PE - V											
3		Power System Dynamics	PE - V											
4		Advanced DSP	PE - V											
5		**Advanced Electric Drives**	**PE - V**											
6		**Industrial Safety**	**OE**											
7		Operation Research	OE											
8		Waste to Energy	OE											

SEMESTER / YEAR	**M. TECH - 2 SEM - 4**

Sr. No.	Subject Code	Subject Name	Sub. Category	Teaching Scheme (Hrs/Week)					Examination Scheme					
									External Marks		Internal Marks			Total Marks
				L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	
1		Internal Review - 2		0	0	4	4	2	0	30	0	0	20	50

2		Dissertation Phase-II	Major Project	0	0	28	28	14	0	200	0	0	100	300
Total				**0**	**0**	**32**	**32**	**16**	**0**	**230**	**0**	**0**	**120**	**350**

Total				**34**	**2**	**72**	**108**	**68**	**600**	**630**	**150**	**550**	**370**	**2300**

VIDHYADEEP UNIVERSITY

PROPOSED MODEL CURRICULUM
of
Engineering & Technology PG Courses Mechanical Engineering

SEMESTER / YEAR	M. TECH - 1 SEM - 1												
Sr. No.	Subject Code	Subject Name	Sub. Category	Teaching Scheme (Hrs/Week)					Examination Scheme					
									External Marks		Internal Marks			Total Marks
				L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	
1	002597101	Disaster Management	Audit	2	0	0	2	0	60	0	40	0	0	100
2	002553101	Research Methodology and IPR	CORE	2	0	0	2	2	0	30	0	0	20	50
3	002553103	**Computer Aided Engineering**	CORE - I	**3**	**0**	**0**	**3**	**3**	**60**	**0**	**0**	**40**	**0**	**100**
4	002553105	**Advanced Thermal and Fluid Engineering**	CORE - II	**3**	**0**	**0**	**3**	**3**	**60**	**0**	**0**	**40**	**0**	**100**
5	002553102	**Lab-I (Software Practice - I)**	LAB COURSE	**0**	**0**	**4**	**4**	**2**	**0**	**30**	**0**	**0**	**20**	**50**
6	002553104	**Lab-II (Laboratory Practice I)**	LAB COURSE	**0**	**0**	**4**	**4**	**2**	**0**	**30**	**0**	**0**	**20**	**50**
7	0025531XX	Program Elective - I	PE - I	3	0	0	3	3	60	0	0	40	0	100
8	0025531XX	Program Elective - II	PE - II	3	0	0	3	3	60	0	0	40	0	100
Total				**16**	**0**	**8**	**24**	**18**	**300**	**90**	**40**	**160**	**60**	**650**

Sr. No.	Subject Code	Subject Name	Sub. Category	L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	Total Marks
1	002553171	Electric Vehicles and Advanced I C Engines	PE - I	3	0	0	3	3	60	0	0	40	0	100
2	002553173	Additive Manufacturing	PE - I	3	0	0	3	3	60	0	0	40	0	100
3	002553175	Advance Power Plant Engg	PE - I	3	0	0	3	3	60	0	0	40	0	100
4	002553179	Concurrent Engineering	PE - II	3	0	0	3	3	60	0	0	40	0	100
5	002553181	Computational Fluid Dynamics	PE - II	3	0	0	3	3	60	0	0	40	0	100
6	002553183	Design of Refrigeration and Air Conditioning Systems	PE - II	3	0	0	3	3	60	0	0	40	0	100

SEMESTER / YEAR	M. TECH - 1 SEM - 2												
Sr. No.	Subject Code	Subject Name	Sub. Category	Teaching Scheme (Hrs/Week)					Examination Scheme					
									External Marks		Internal Marks			Total Marks
				L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	
1	002597201	English For Research Paper Writing	Audit	2	0	0	2	0	0	0	60	40	0	100
2	002553205	**Mini Project**	CORE	**0**	**0**	**4**	**4**	**2**	**0**	**40**	**0**	**0**	**60**	**100**

3	002553201	**Computer Integrated Manufacturing**	CORE - III	**3**	**0**	**0**	**3**	**3**	**60**	**0**	**0**	**40**	**0**	**100**
4	002553203	**Mechanical Design Analysis**	CORE - IV	**3**	**0**	**0**	**3**	**3**	**60**	**0**	**0**	**40**	**0**	**100**
5	002553202	**Lab-I (Software Practice - II)**	CORE - III LAB	**0**	**0**	**4**	**4**	**2**	**0**	**30**	**0**	**0**	**20**	**50**
6	002553204	**Lab-II (Laboratory Practice II)**	CORE - IV LAB	**0**	**0**	**4**	**4**	**2**	**0**	**30**	**0**	**0**	**20**	**50**
7	0025532XX	Program Elective - III	PE - III	3	0	0	3	3	60	0	0	40	0	100
8	0025532XX	Program Elective - IV	PE - IV	3	0	0	3	3	60	0	0	40	0	100
Total				**14**	**0**	**12**	**26**	**18**	**240**	**100**	**60**	**200**	**100**	**700**

Sr. No.	Subject Code	Subject Name	Sub. Category	L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	Total Marks
1	002553271	Renewable Energy Systems	PE - III	3	0	0	3	3	60	0	0	40	0	100
2	002553273	Design of Pressure Vessels& Piping	PE - III	3	0	0	3	3	60	0	0	40	0	100
3	002553275	Advanced Welding Technology	PE - III	3	0	0	3	3	60	0	0	40	0	100
4	002553279	Mechanics of Composite Laminates	PE - IV	3	0	0	3	3	60	0	0	40	0	100
5	002553281	Combustion	PE - IV	3	0	0	3	3	60	0	0	40	0	100
6	002553283	Design of Heat Exchangers	PE - IV	3	0	0	3	3	60	0	0	40	0	100

SEMESTER / YEAR		**M. TECH - 2 SEM - 3**												
Sr. No.	**Subject Code**	**Subject Name**	**Sub. Category**	**Teaching Scheme (Hrs/Week)**					**Examination Scheme**					
									External Marks		**Internal Marks**			**Total Marks**
				L	**T**	**P**	**Total**	**Credit**	**TH**	**PR**	**FA**	**CAT**	**CAP**	
1		Dissertation Phase I	Dissertation	**0**	**0**	**20**	**20**	**10**	**0**	**40**	**0**	**0**	**60**	**100**
2		OPEN ELECTIVE	OE	**3**	**0**	**0**	**3**	**3**	**60**	**0**	**0**	**40**	**0**	**100**
3		Program Elective - V	PE - V	**3**	**0**	**0**	**3**	**3**	**60**	**0**	**0**	**40**	**0**	**100**
Total				**6**	**0**	**20**	**26**	**16**	**120**	**40**	**0**	**80**	**60**	**300**

Sr. No.	Subject Code	Subject Name	Sub. Category	L	T	P	Total	Credit	TH	PR	FA	CAT	CAP	Total Marks
1		Design of Solar and Wind System	PE - V	3	0	0	3	3	60	0	0	40	0	100
2		Intelligent Manufacturing Systems	PE - V	3	0	0	3	3	60	0	0	40	0	100
3		Energy Conservation, Management and Audit	PE - V	3	0	0	3	3	60	0	0	40	0	100
4		Industrial Safety	OE	3	0	0	3	3	60	0	0	40	0	100

5		Operations Research	OE	3	0	0	3	3	60	0	0	40	0	100
6		Composite Materials	OE	3	0	0	3	3	60	0	0	40	0	100

SEMESTER / YEAR		**M. TECH - 2 SEM - 4**												
Sr. No.	**Subject Code**	**Subject Name**	**Sub. Category**	**Teaching Scheme**					**Examination Scheme**					
				(Hrs/Week)					**External Marks**		**Internal Marks**			**Total Marks**
				L	**T**	**P**	**Total**	**Credit**	**TH**	**PR**	**FA**	**CAT**	**CAP**	
1		Dissertation Phase-II	Major Project	0	0	32	32	16	0	40	0	0	60	100
Total				**0**	**0**	**32**	**32**	**16**	**0**	**40**	**0**	**0**	**60**	**100**