

Faculty of Electrical Engineering
M.E. Power Electronics and Drives
(R 2017) Semester – I
PX5111 POWER ELECTRONIC CIRCUITS LABORATORY
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Personal Computers (Intel Core i3, 250 GB, 1 GB RAM)	10		
2.	Printer	1		
3.	Server (Intel Core i3, 4 GB RAM) (High Speed Processor)	1		
4.	Software MATLAB/SIMULINK/SCILAB/PSPICE Software	10		
5.	Full converter	2		
6.	IGBT/MOSFET,OPAMPS/SCR	10		
7.	Single phase square wave inverter	2		
8.	Microcontroller & DSP Processor for PWM generation	2		
9.	ADC Interface board	2		
10.	IR2110 MOSFET & Driver circuit	5		
11.	Voltage and current sensor (Hall effect sensor)	5		
12.	Ammeter,voltmeter of suitable ratings	10		
13.	Regulator DC Power supplies	5		
14.	CRO s	10		
15.	DC Motor	2		

16.	Resistive load	5		
17.	Inductive load	5		
18.	Capacitive load	5		
19.	Breadboards	20		
20.	Digital Multimeter	10		
21.	Digital Storage Oscilloscope	5		
22.	Single phase Isolation Transformer	5		
23.	Single phase step down transformer	5		
24.	Three phase sine PWM Inverter	5		
25.	Single phase sine PWM Inverter	5		
26.	Single phase auto transformer	2		
27.	Three phase Auto transformer	2		

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M.E. Power Electronics and Drives
(R 2017) Semester – II
PX5211 ELECTRICAL DRIVES LABORATORY
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Converter fed DC motor drive	1		
2.	Chopper fed DC motor drive	1		
3.	V/f control based Induction motor devices	1		
4.	Cyclo converter fed induction motor drive	1		
5.	Three phase synchronous generator	1		
6.	SRM Drive with DSP controller	1		
7.	PMBLDC Drive	1		
8.	Stepper motor drive with microprocessor based control	1		
9.	Single phase multilevel inverter fed with motor drive	1		
10.	Power Quality Analyser	1		
11.	Tachometers	10		
12.	Ammeters	10		
13.	Voltmeters	10		
14.	Digital storage oscilloscope	5		