

# **Walchand College of Engineering**

*(Government Aided Autonomous Institute)*

Vishrambag, Sangli. 416415



**Credit System for  
S.Y. B.Tech. (Electrical Engineering)  
Sem-III and IV**

**2022-23**



# Walchand College of Engineering

(Government Aided Autonomous Institute)

## Credit System for S.Y. B.Tech. (Electrical Engineering) Sem-III AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext	
<b>Professional Core (Theory)</b>														
1	BS	6MA203	Applied Mathematics for Electrical Engineers	3	0	0	0	3	3	30	20	50		
2	PC	6EL201	DC Machines and Transformers	3	0	0	0	3	3	30	20	50		
3	PC	6EL202	Electrical Circuits	3	0	0	0	3	3	30	20	50		
4	PC	6EL203	Analog and Digital Circuits	3	0	0	0	3	3	30	20	50		
5	PC	6EL204	Electrical Generation	3	0	0	0	3	3	30	20	50		
<b>Professional Core (Lab)</b>														
6	PC	6EL251	DC Machines and Transformers Lab	0	0	2	0	2	1	30	30	40	POE	
7	PC	6EL252	Electrical Circuit Lab	0	0	2	0	2	1	30	30	40	POE	
8	PC	6EL253	Analog and Digital Circuits Lab	0	0	2	0	2	1	30	30	40	POE	
9	PC	6EL254	Simulation Lab	0	0	2	1	3	2	30	30	40		
<b>AICTE Mandatory Courses</b>														
10	MC	5IC201	Environmental Science	2	0	0	0	2	0	30	20	50		
<b>Total</b>				<b>17</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>26</b>	<b>20</b>					

### Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The Y in the PoE indicates external component for ESE.

Minimum two AICTE mandatory courses need to be completed for award of degree.

**For further details, refer to Academic and Examination rules and regulations.**



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## Credit System for S.Y. B.Tech. (Electrical Engineering) Sem-IV AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext	
<b>Professional Core (Theory)</b>														
1	PC	6EL221	AC Machines	3	0	0	0	3	3	30	20	50		
2	PC	6EL222	Electrical Transmission and Distribution	3	0	0	0	3	3	30	20	50		
3	PC	6EL223	Power Electronics	3	0	0	0	3	3	30	20	50		
4	PC	6EL224	Signals and Systems	3	1	0	0	4	4	30	20	50		
5	PC	6EL225	Electrical Measurement and Instrumentation	3	0	0	0	3	3	30	20	50		
<b>Professional Core (Lab)</b>														
6	PC	6EL271	AC Machines Lab	0	0	2	0	2	1	30	30	40	POE	
7	PC	6EL272	Electrical Transmission and Distribution Lab	0	0	2	0	2	1	30	30	40	OE	
8	PC	6EL273	Power Electronics Lab	0	0	2	0	2	1	30	30	40	POE	
9	PC	6EL275	Electrical Measurement and Instrumentation Lab	0	0	2	0	2	1	30	30	40		
<b>Total</b>				<b>15</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>24</b>	<b>20</b>					

### Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The Y in the PoE indicates external component for ESE.

Minimum two AICTE mandatory courses need to be completed for award of degree.

**For further details, refer to Academic and Examination rules and regulations.**