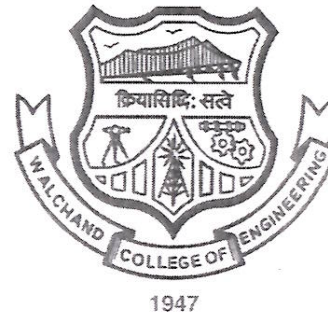


# **Walchand College of Engineering**

*(Government Aided Autonomous Institute)*

Vishrambag, Sangli. 416415



**Credit System for  
F.Y. M.Tech. (Power System Engineering)**

**Sem-I and II**

**2022-23**



# Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

## Credit System for F.Y. M.Tech. (Power System Engineering) Sem-I AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark	
<b>Professional Core (Theory)</b>														
1	PC	6PS501	Digital Protection of Power System	3	0	0	0	3	3	30	20	50		
2	PC	6PS502	Application of Power Electronics to Power System	3	0	0	0	3	3	30	20	50		
<b>Professional Core (Lab)</b>														
3	PR	6PS547	Research Methodology for Power System Engineers	0	0	0	2	2	2	30	30	40		
4	PR	6PS545	Digital Protection of Power System Laboratory	0	0	2	0	2	1	30	30	40	OE	
5	PR	6PS546	Application of Power Electronics to Power System Laboratory	0	0	2	0	2	1	30	30	40	OE	
6	HS	6PS551	Presentation and Technical Report Writing	0	0	0	1	1	1	30	30	40		
7	PC	6PS552	Professional Skills 1	0	0	0	1	1	1	30	30	40		
<b>Professional Elective (Theory)</b>														
8	PE	Refer list	Professional Elective 1	3	0	0	0	3	3	30	20	50		
9	PE	Refer list	Professional Elective 2	3	0	0	0	3	3	30	20	50		
<b>Professional Elective (Lab)</b>														
<b>Total</b>				<b>12</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>20</b>	<b>18</b>					

  
PG Coordinator

  
HoD

  
Dean Academics



# Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

## Professional Elective Course List for F.Y. M.Tech. (Power System Engineering) Sem-I AY 2022-23

Sr.No.	Track	Course Code	Course Name
<b>Professional Elective 1</b>			
1	Elect. Transmission and Distribution	6PS511	Power Apparatus Modeling
2	Elect. Power Control and Analysis	6PS512	DSP Application to Power System
<b>Professional Elective 2</b>			
1	Elect. Transmission and Distribution	6PS513	Grid Integration of Renewable Energy
2	Elect. Power Control and Analysis	6PS514	Neural Network and Fuzzy Application to Power System

### 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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# Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

## Credit System for F.Y. M.Tech. (Power System Engineering) Sem-II AY-2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark	
<b>Professional Core (Theory)</b>														
1	PC	6PS521	Power Quality in Distribution Systems	3	0	0	0	3	3	30	20	50		
2	PC	6PS522	PLC and Embedded Systems	3	0	0	0	3	3	30	20	50		
<b>Professional Core (Lab)</b>														
3	PR	6PS591	Power Quality in Distribution Systems Laboratory	0	0	2	0	2	1	30	30	40	OE	
4	PR	6PS592	PLC and Embedded Systems Laboratory	0	0	2	0	2	1	30	30	40	OE	
5	PR	6PS593	Pre-dissertation Work and Seminar	0	0	4	0	4	2	30	30	40		
<b>Professional Elective (Theory)</b>														
6	PE	Refer list	Professional Elective 3	3	0	0	0	3	3	30	20	50		
<b>Professional Elective (Lab)</b>														
7	PR	Refer list	Professional Elective 3 Laboratory	0	0	2	0	2	1	30	30	40		
<b>Open Elective</b>														
8	OE	Refer list	Open Elective	3	0	0	0	3	3	30	20	50		
<b>Total</b>				<b>12</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>22</b>	<b>17</b>					

  
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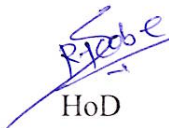
# Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

## Professional Elective Course List for F.Y. M.Tech. (Power System Engineering) Sem-II AY 2022-23

Sr.No.	Track	Course Code	Course Name
<b>Professional Elective 3</b>			
1	Elect. Power Control and Analysis	6PS531	Modern Power Electronics
2	Elect. Transmission and Distribution	6PS532	EHVAC
<b>Professional Elective 3 Laboratory</b>			
1	Elect. Power Control and Analysis	6PS571	Modern Power Electronics
2	Elect. Transmission and Distribution	6PS572	EHVAC

  
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# Walchand College of Engineering, Sangli

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## Open Elective Course List for F.Y. M.Tech. (Power System Engineering) Sem-II AY 2022-23

Sr.No.	Offering Dept	Sem	Course Code	Course Name
<b>Open Elective</b>				
1	Civil Env	2	6OE501	Solid Waste Management
2	Civil Struct	2	6OE502	Structural Health Monitoring
3	Mech Design	2	6OE503	Industrial Product Design
4	Mech Heat	2	6OE504	Waste to Energy
5	Mech Prod	2	6OE505	Advanced Production systems
6	Eln	2	6OE508	Introduction to Embedded Systems
7	CSE	2	6OE509	Machine Learning in Practice
8	IT	2	6OE510	Machine Learning & Applications

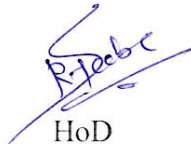
### Notes:

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.**

  
PG Coordinator

  
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