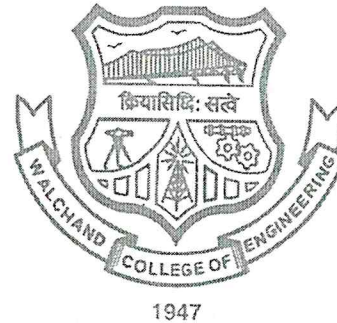


# Walchand College of Engineering

*(Government Aided Autonomous Institute)*

Vishrambag, Sangli-416415



## Credit System for F. Y. M. Tech. (Thermal Engineering) Semester-I and II

Effective from AY 2024-25



# Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

## Credit System for F. Y. M. Tech. (Thermal Engineering) Sem-I Effective from AY 2024-25

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
<b>Professional Core (Theory)</b>												
1	PC	7IC501	Research Methodology and IPR	3	0	0	3	3	30	20	50	
2	PC	1TH501	Thermodynamics and Combustion	3	0	0	3	3	30	20	50	
3	PC	1TH502	Advanced Fluid Dynamics	3	0	0	3	3	30	20	50	
4	PC	1TH503	Advanced Heat Transfer	3	0	0	3	3	30	20	50	
<b>Professional Core (Lab)</b>												
5	PC	1TH551	Thermodynamics and Combustion Lab	0	0	2	2	1	30	30	40	
6	PC	1TH552	Advanced Fluid Dynamics Lab	0	0	2	2	1	30	30	40	
7	PC	1TH553	Advanced Heat Transfer Lab	0	0	2	2	1	30	30	40	
<b>Professional Elective (Theory)</b>												
8	PE	Refer List	Professional Elective 1	3	0	0	3	3	30	20	50	
9	PE	Refer List	Professional Elective 2	3	0	0	3	3	30	20	50	
<b>Total</b>				<b>18</b>	<b>0</b>	<b>6</b>	<b>24</b>	<b>21</b>				

### Professional Elective Course List for F. Y. M. Tech. (Thermal Engineering) Sem-I

Sr. No.	Track	Course Code	Course Name
<b>Professional Elective 1</b>			
1	Study and Design of Thermal Systems	1TH511	Nuclear Engineering
2	Pumps and Turbines	1TH512	Design of Thermo Turbo Systems
3	Pumps and Turbines	1TH513	Gas Turbines
<b>Professional Elective 2</b>			
1	Study and Design of Thermal Systems	1TH514	Design of Hydro Turbo Systems
2	Heating Ventilation and Air Conditioning	1TH515	Air Conditioning System Design
3	Energy Engineering	1TH516	Design of Solar and Wind System

HoD

Dean Academics



# Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

## Credit System for F. Y. M. Tech. (Thermal Engineering) Sem-II Effective from AY 2024-25

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs.	Cr	MSE/LA1	ISE/LA2	ESE	Remark
<b>Professional Core (Theory)</b>												
1	PC	1TH521	Steam Engineering	3	0	0	3	3	30	20	50	
2	PC	1TH522	Computational Techniques in Fluid Flow and Heat Transfer	3	0	0	3	3	30	20	50	
3	PC	1TH523	Internal Combustion Engine Design	3	0	0	3	3	30	20	50	
<b>Professional Core (Lab)</b>												
3	PC	1TH571	Steam Engineering Lab	0	0	2	2	1	30	30	40	
4	PC	1TH572	CFD Lab	0	0	2	2	1	30	30	40	
5	PC	1TH545	Seminar	0	0	2	2	1	30	30	40	
<b>Professional Elective (Theory)</b>												
6	PE	Refer List	Professional Elective 3	3	0	0	3	3	30	20	50	
7	PE	Refer List	Professional Elective 4	3	0	0	3	3	30	20	50	
<b>Open Elective</b>												
8	OE	Refer List	Open Elective	3	0	0	3	3	30	20	50	
<b>Total</b>				<b>18</b>	<b>0</b>	<b>6</b>	<b>24</b>	<b>21</b>				

### Professional Elective Course List for F. Y. M. Tech. (Thermal Engineering) Sem-II AY 2024-25

Sr.No.	Track	Course Code	Course Name
<b>Professional Elective 3</b>			
1	Study and Design of Thermal Systems	1TH531	Design of Heat Exchanger
2	Refrigeration	1TH532	Industrial Refrigeration
3	Food Preservation	1TH533	Food preservation and cold chain management
<b>Professional Elective 4</b>			
1	Refrigeration	1TH534	Cryogenics
2	Heating Ventilation and Air Conditioning	1TH535	Industrial Air Conditioning
3	Energy Engineering	1TH536	Energy Conservation and Management

HoD

J/c Dean Academics