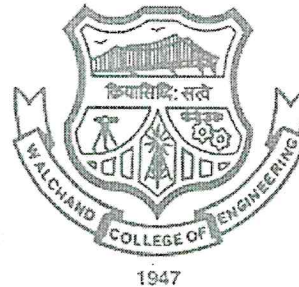


Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for

Final Year B.Tech. (Mechanical Engineering)

Sem.-VII and VIII

Applicable to AY 2024-25 and AY 2025 -26

Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Final Year B.Tech. (Mechanical Engineering) Sem.-VII and VIII

Applicable to AY 2024-25 and AY 2025 -26

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext	
Professional Core (Theory)														
01	PC	6ME401	Mechanical Vibrations	3	0	0	0	3	3	30	20	50		
02	PC	6ME402	Refrigeration and Air Conditioning	3	0	0	0	3	3	30	20	50		
03	PC	6ME403	Instrumentation and Control	3	1	0	0	4	4	30	20	50		
Professional Core (Lab)														
04	PC	6ME451	Mechanical Vibrations Lab	0	0	2	0	2	1	30	30	40	OE	
05	PC	6ME452	Refrigeration and Air Conditioning Lab	0	0	2	0	2	1	30	30	40	POE	
06	PC	6ME453	Techno-Socio Activity	0	1	0	0	1	1	30	30	40		
07	PR	6ME491	Project-I	0	0	6	0	6	3	30	30	40	OE	
Professional Elective (Theory)														
08	PE	Refer List	Professional Elective-5	3	1	0	0	4	4	30	20	50		
Open Elective														
09	OE	Refer List	Open Elective-3	3	0	0	0	3	3	30	20	50		
AICTE Mandatory Course														
10	MC	6IC401	Constitution of India	2	0	0	0	2	0	30	20	50		
Total				17	3	10	0	32	23					

Notes:

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

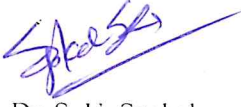
For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The POE/OE indicates external component for ESE.

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

The contact hours of guide for Final Year B.Tech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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


Prof. R. M. Chanmanwar
DAC/Secretary, BoS


Dr. S. U. Sapkal
Head, Mechanical Engg. Dept./
Chairman, BoS


Dr. A. K. Kokane
Dean Academics

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Applicable to AY 2024-25 and AY 2025 -26

Sr.No.	Track	Course Code	Course Name
Professional Elective-5			
01	Production Engg.	6ME411	Industrial Engineering
02	Design Engg.	6ME412	Solid Mechanics
03	Thermal Engg.	6ME413	Cryogenics

* Open Elective-5 offered by Mechanical Dept. is allowed for students of all other departments (Except Mechanical Dept.)



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Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext	
Professional Core (Theory)														
01	PC	6ME421	Automobile Engineering	3	1	0	0	4	4	30	20	50		
Professional Core (Lab)														
02	PR	6ME492	Project-II	0	0	12	0	12	6	30	30	40	OE	
Professional Elective (Theory)														
03	PE	Refer List	Professional Elective-6	3	0	0	0	3	3	30	20	50		
04	PE	Refer List	Professional Elective-7	3	0	0	0	3	3	30	20	50		
05	PE	Refer List	Professional Elective-8	3	0	0	0	3	3	30	20	50		
Humanities														
06	HS	6HS401	Humanities-3: Accounting and Finance for Engineers	2	0	0	0	2	2	30	20	50		
Total				14	1	12	0	27	21					


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 POE/OE indicates external component for ESE.

The contact hours of guide for Final Year BTech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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


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Applicable to AY 2024-25 and AY 2025 -26

Sr.No.	Track	Course Code	Course Name
Professional Elective-6			
01	Thermal Engg.	6ME431	Renewable Energy Engineering
02	Production Engg.	6ME432	Total Quality Management
03	Design Engg.	6ME433	Condition Monitoring of Machines and Signal Processing
Professional Elective-7			
01	Thermal Engg.	6ME434	Gas Dynamics and Jet Propulsion
02	Design Engg.	6ME435	Design of Transmission System
03	Production Engg.	6ME436	Computer Integrated Manufacturing
Professional Elective-8			
01	Thermal Engg.	6ME437	Combustion
02	Production Engg.	6ME438	Product Life Cycle Management
03	Design Engg.	6ME439	Mechanical System Design


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