(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



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

AY 2023-24

Page No. \_\_\_/\_\_ Date: \_\_\_/\_\_/2023

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# Credit System for Final Year B.Tech. (Mechanical Engineering) Sem-VII AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	P	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Core (1	heory									
01	PC	5ME401	Mechanical Vibrations	3	0	0	0	3	3	30	20	50	SECTION AND ADDRESS.
02	PC	5ME402	Refrigeration and Air Conditioning		0	0	0	2	2	30	20	50	
			Professional Core	(Lab)									1.00
03	PC	5ME451	Mechanical Vibrations Lab		0	2	0	2	1	30	30	40	OE
04	PC	5ME452	Refrigeration and Air Conditioning Lab	0	0	2	0	2	1	30	30	40	POE
05	PC	5ME453	Techno-Socio Activity	0	0	0	1	1	1	30	30	40	1.02
06	PR	5ME454	Project-I	0	0	6	0	6	3	30	30	40	OE
07	PR	5ME441	Mini-Project-5		0	2	0	2	1	30	30	40	
			Professional Elective	(Theor	v)								
08	PE	Refer List	Professional Elective-5	3	0	0	0	3	3	30	20	50	24.0
			Open Elective				HE SALES					E SEC.	
09	OE	Refer List	Open Elective-5	3	0	0	0	3	3	30	20	50	22-150 M (152-24)
			Humanities				A. 12					TALK IN	
10	HS	5ME455	Humanities-3: Project Management	0	0	0	1	1	1	15	15	20	
11	HS	5ME403	Humanities-4: Legal, IPR, Safety		0	0	0	1	1	15	10	25	
			AICTE Mandatory (	Course									West News
12	MC	5IC401	Constitution of India	2	0	0	0	2	0	30	20	50	
		-1	Total	14	0	12	2	28	20				

#### 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 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.

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

Dr. S. U. Sapkal Head, Mechanical Engg. Dept./ Chairman, BoS Dr. Mrs. S. P. Sonavane
Dean Academics

Page No. \_\_\_/\_\_ Date: \_\_\_/\_\_/2023

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#### Elective Course List for Final Year B.Tech. (Mechanical Engineering) Sem-VII AY 2023-24

Sr.No.	Track	Course Code	Course Name	
		Professiona	al Elective-5	
01	Design Engg.	5ME411	Finite Element Method	
02	Production Engg.	5ME412	Industrial Engineering	
03	03 Design Engg. 5ME413 Solid Mechanics			

Sr.No.	Offering Dept.	Course Name				
		Open Elect	rive-5			
01	Civil Engg.	Management for Engineers				
02			Structural Health Monitoring			
03	Mechanical Engg.*	5OE429	Industrial Automation			
04	Electrical Engg. 50E443 Industrial Automation (NPTEL)		Industrial Automation (NPTEL)			
05	Electronics Engg.	5OE457	Medical Image Processing			
06	CSE Engg.	5OE471	Cyber Security			
07	07 IT Engg. 50E485 Data Visualization & Interpretation					

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

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Page No. \_\_\_/\_\_\_

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## Credit System for Final Year B.Tech. (Mechanical Engineering) Sem-VIII AY 2023-24

Sr.No.	Category	Course Code	Course Name		T	P	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Cor	e (Theo	ry)				n le su				
01	PC	5ME421	Automobile Engineering		0	0	0	3	3	30	20	50	-
			Professional Co	ore (Lab	1								
02	PR	5ME491	Project-II	0	0	12	0	12	6	30	30	40	POE
			Professional Elect	ive (The	ory)								Bang Fa
03	PE	Refer List	Professional Elective-6	3	0	0	0	3	3	30	20	50	Self-temprater
04	PE	Refer List	Professional Elective-7		0	0	0	3	3	30	20	50	1
05	PE	Refer List	Professional Elective-8	3	0	0	0	3	3	30	20	50	
			To	otal 12	2 0	12	0	24	18				

#### 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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## Elective Course List for Final Year B.Tech. (Mechanical Engineering) Sem-VIII AY 2023-24

Sr.No.	Track	Course Code	Course Nome							
31.110.	ITACK		Course Name							
Professional Elective-6										
01	Thermal Engg.	5ME431	Computational Fluid Dynamics							
02	Production Engg. 5ME432		Total Quality Management							
03	Design Engg.	5ME433	Condition Monitoring of Machines and Signal Processing							
		Profession	onal Elective-7							
01	Thermal Engg.	5ME434	Gas Dynamics and Jet Propulsion							
02	Production Engg.	5ME435	Computer Integrated Manufacturing							
03	Design Engg.	5ME436	Design of Transmission System							
		Profession	onal Elective-8							
01	Thermal Engg.	5ME437	Combustion							
02	Production Engg.	5ME438	Product Life Cycle Management							
03	Design Engg. 5ME439		Mechanical System Design							

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Page No.

/2023

Date: