

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Faculty of Science and Technology

Credit System structure of Final Year B. Tech. Mechanical Engineering W.E.F. 2023-2024 [Semester VII]

Semester VII - Theory Courses

G 1	Name of Theory Course	Hrs./week			Credits	Examination Scheme				
Course code		L	T	P	D		ISE	ESE	ICA	Total
ME 411	Refrigeration and Air Conditioning	3		-	-	3	30	70	-	100
ME 412	Automobile Engineering	3	1	ı	-	3	30	70	1	100
ME 413	Automation and Robotics	3	3	-	-	3	30	70	1	100
ME 414 P	Professional Elective-V	3	ı	ř	-	3	30	70	-	100
ME 415 O	Open Elective-I	3	1	-	-	3	30	70	-	100
	Sub Total	15	1		-	15	150	350	-	500

Semester VII - Laboratory / Tutorial Courses

Course code	Name of Laboratory / Tutorial Course		Hrs.	/week			Examination Scheme				
		7	T P	D	D	Credits	ISE	ESE		ICA	Total
		L		F				POE	OE	ICA	Totat
ME 411	Refrigeration and Air Conditioning	· -	-	2	\-	1	-	-	25	25	50
ME 412	Automobile Engineering	-	-	2		1	-	_	25	25	50
ME 413	Automation and Robotics	-	-	2		1	-	-	_	25	25
ME 414 P	Professional Elective-V	-	-VI	2	-	1	-	-	-	25	25
ME 415 O	Open Elective-I	_		2	-	~ 1	-	-	-	25	25
	Industrial Training	_	1		_	1	-	-	25	50	75
	Project Phase – I		-	4	-	2	-	-	-	50	50
	Sub Total	_		14		08	-	7	'5	225	300
	Grand Total	15	1	14	-	23	150	425		225	800

Abbreviations: L-Lectures, P-Practical, T-Tutorial, ISE-In-Semester Examination, ESE - End Semester Examination (University Examination for Theory & / POE & / Oral), ICA-Internal Continuous Assessment.

Professional Elective – V: A. Production and Operations Management, B. Artificial Intelligence & Machine Learning, C. Railway Systems Management D. Analysis and Synthesis of Mechanisms

Open Elective – I: A. Entrepreneurship Development, B. Operations Research, C. Research Methodology D. Supply Chain Management

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Punyashlok Ahilyadevi Holkar Solapur University, Solapur Faculty of Science and Technology

Credit System structure of Final Year B. Tech. Mechanical Engineering W.E.F. 2023-2024 [Semester VIII]

Semester VIII - Courses

Course code	Name of Course	Hrs./week					Examination Scheme					
		L	T	P	D	Credits	ISE	ESE			ICA	Total
			1	1				Theory	POE	OE	ICA	10iai
ME 421-A	Self-Learning Technical (MOOC/Swayam / NPTEL)	-	-	-	-	4	-	100*	-	-	1	100*
ME 421-B	Self Learning Technical Course offered by institute	-	-	-	-	4	-	100*	-	-	-	100*
ME 421-C	Apprenticeship/Internship	-	-	-	-	4	-	-	-	100*	-	100*
ME 422	Project Phase – II (Progress Presentation - I)	-	1	2	-	1	-	-	-	1	50	50
ME 423	Project Phase – III (Progress Presentation - II)	-	-	2	-	1	-	-	-	-	50	50
ME 424	Project Phase – IV (Report Submission & Final Presentation)	_	_	4	-	2	-	-	50	-	50	100
	Grand Total					08		100			150	300

Abbreviations: L-Lectures, P-Practical, T-Tutorial, ISE-In Semester Examination, ESE - End Semester Examination (University Examination for Theory & / POE & / Oral), ICA-Internal Continuous Assessment.

^{*} Students shall opt for any one of the three courses (i.e. out of ME 421-A, ME 421-B and ME 421-C, students can select any one course for obtaining 4 credits of 100 marks).

M421A-Self Learning Technical Course (MOOC/Swayam/NPTEL):

• ESE 100 Marks, Credits: 4, transferrable from Online Examinations conducted by approved MOOC platform.

M421B Self Learning Technical Course offered by institute:

- **ESE** 100 Marks, Credits: 4, Course shall be designed by the Institute
- **Institute** level examination to be conducted by institute offering the course.

M421C Apprenticeship/Internship (Self Learning):

- Students shall opt for semester long internship/apprenticeship (minimum 60 days).
- ESE 100 Marks, Credits: 4 (Oral Examination based on the report of Apprenticeship/Internship)
- Apprenticeship/Internship may be of the following type:
 - 1. Offered by industry at their premises.
 - 2. Offered by industry at the institute campus.
 - 3. Offered by institute jointly with the industry.

