



**SOLAPUR UNIVERSITY, SOLAPUR**  
**Faculty of Engineering & Technology**

Structure of CBCS Curriculum for Third Year (Mechanical Engineering) w .e. f .2018-19

**Semester I : Theory Courses**

Course code	Name of Theory Course	Hrs./week				Credits	Examination Scheme			
		L	T	P	D		ISE	ESE	ICA	Total
ME311	Theory of Machine -II	3	-	-	-	3	30	70	-	100
ME312	Metrology and Mechanical Measurement	3	-	-	-	3	30	70	-	100
ME313	Metallurgy	3	-	-	-	3	30	70	-	100
ME314	Machine Design -I	3	-	-	-	3	30	70	-	100
ME315	Professional Elective -III	3	-	-	-	3	30	70	-	100
SLH31	Self Learning Course I -HSS	-	-	-	-	2	-	50		50
	<b>Sub Total</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17</b>	<b>150</b>	<b>400</b>		<b>550</b>

**Semester I: Laboratory / Tutorial Courses**

Course code	Name of Laboratory /Tutorial Course	Hrs./week				Credits	Examination Scheme				
		L	T	P	D		ISE	ESE		ICA	Total
								POE	OE		
ME311	Theory of Machine -II	-	-	2	-	1	-	-	25	25	50
ME312	Metrology and Mechanical Measurement	-	-	2	-	1	-	-	-	25	25
ME313	Metallurgy	-	-	2	-	1	-	-	25	25	50
ME314	Machine Design -I	-	-	2	-	1	-	-	-	25	25
ME315	Professional Elective -III	-	-	2	-	1	-	-	-	25	25
ME316	Advanced Computer Programming -I	1	-	2	-	2	-	-	-	50	50
ME317	Workshop Practices -IV	-	-	2	-	1	-	-	-	50	50
	<b>Sub Total</b>	<b>-</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>50</b>	<b>225</b>	<b>275</b>
	<b>Grand Total</b>	<b>16</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>25</b>	<b>150</b>	<b>450</b>	<b>225</b>	<b>825</b>	

**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 –III:** Machine Tool Design, Material Handling System, Fluid Machinery & Fluid Power



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**Semester II : Theory Courses**

Course code	Name of Theory Course	Hrs./week				Credits	Examination Scheme			
		L	T	P	D		ISE	ESE	ICA	Total
ME321	Heat and Mass Transfer	3	-	-	-	3	30	70	-	100
ME322	Internal Combustion Engine	3	-	-	-	3	30	70	-	100
ME323	CAD-CAM & CAE	3	-	-	-	3	30	70	-	100
ME324	Machine Design -II	3	-	-	-	3	30	70	-	100
ME325	Professional Elective -IV	3	-	-	-	3	30	70	-	100
ME326	Self Learning Course II-Technical	-	-	-	-	2	-	50	-	50
	<b>Sub Total</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17</b>	<b>150</b>	<b>400</b>	<b>-</b>	<b>550</b>

**Semester II: Laboratory / Tutorial Courses**

Course code	Name of Laboratory / Tutorial Course	Hrs./week				Credits	Examination Scheme				
		L	T	P	D		ISE	ESE		ICA	Total
								POE	OE		
ME321	Heat and Mass Transfer	-	-	2	-	1	-	25	-	25	50
ME322	Internal Combustion Engine	-	-	2	-	1	-	-	-	25	25
ME323	CAD-CAM & CAE	-	-	2	-	1	-	-	-	25	25
ME324	Machine Design -II	-	-	2	-	1	-	-	25	25	50
ME325	Professional Elective - IV	-	-	2	-	1	-	-	-	25	25
ME327	Advanced Computing Techniques'-II	1	-	2	-	2	-	-	-	50	50
ME328	Workshop Practice –V	-	-	2	-	1	-	25#	-	25	50
	<b>Sub Total</b>	<b>-</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>08</b>	<b>-</b>	<b>75</b>	<b>200</b>	<b>275</b>	
	<b>Grand Total</b>	<b>16</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>25</b>	<b>150</b>	<b>475</b>	<b>200</b>	<b>825</b>	

**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 – IV:** Experimental Stress Analysis, Mechanical Vibration, Tool engineering # Indicates practical Examination only.

- **Note –**

1. Batch size for the practical /tutorial shall be of 15 students. On forming the batches, if the strength of remaining students exceeds 07, then a new batch shall be formed.
2. Industrial Training (evaluated at B.E. Sem.-I) of minimum 15 days shall be completed in any vacation after S.E. Sem.-II, may be Maximum in two slots but before B.E. Sem.-I & the report shall be submitted and evaluated in B.E. Sem.-I.
3. Students shall select one Self Learning Module at T.E. Sem. I and T.E. Sem. II each from Humanities and Social Sciences and Technical Groups Respectively.
4. Curriculum for Humanities and Social Sciences Self Learning Modules is common for all under graduate programmes of faculty of Engineering and Technology.
5. Minimum four assignments for Self Learning Modules at T.E. Sem.-I be submitted by the students which shall be evaluated by a Module Coordinator assigned by institute / department.

**6. for TE Part I -**

**A.** Student can select a Self Learning Course from Solapur University, Solapur HSS Course List and appear for its examination as and when conducted by Solapur University, Solapur

**OR**

**B.** Student can enroll for National Programme on Technology Enhanced Learning (NPTEL) course, complete its assignments and appear for certificate examination as and when conducted by NPTEL.

*For more details about Self Learning Course (HSS) please refer to separate rule document available from Solapur University, Solapur*

*More details about NPTEL are available at <http://nptel.ac.in>*

7. ICA assessment shall be a continuous process based on student's performance in class tests, assignments, homework, subject Seminars, quizzes, laboratory books and their interaction and attendance for theory and laboratory sessions as applicable