

**Yenepoya Institute of Technology**  
**Department of Mechanical Engineering**  
**Details of Online Classes**

<b>Academic Year: 2020-2021</b>		<b>Semester: V</b>	<b>Course: Management and Economics</b>	<b>Course Code: 18ME51</b>
<b>Serial No:</b>	<b>Date</b>	<b>Module</b>	<b>Topics Covered</b>	<b>Material link (Video/ppt/Notes/ Question Bank)</b>
1	December-Week-I	Module -4	<b>Introduction Present, future and annual worth and rate of returns</b> Introduction	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
2			Basic present worth comparisons	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
3			Present worth-equivalence, Assets with unequal lives	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
4			Infinites lives, future worth comparisons	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
5	December-Week-II		Payback comparisons, Equivalent annual worth comparisons	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
6			Situations for annual worth comparisons	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
7			Asset life, Rate of return, minimum acceptable rate of return	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
8			IRR anomalies and misconceptions, Cost of capital	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
9	December-Week-III		Comparisons of all present future and annual worth with IRR	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>
10			Product costing, Discussions and	<a href="https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing">https://drive.google.com/file/d/1MPBhCLYDliBeLn2BG0t3xTSsaQrDESbs/view?usp=sharing</a>

			problems	
11			<b>Costing and Depreciation:</b> Components of costs	<a href="https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing">https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing</a>
12		Module -5	Estimation of selling price, marginal cost, first cost	<a href="https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing">https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing</a>
13			All kinds of overheads, indirect cost estimation with depreciation	<a href="https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing">https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing</a>
14			Mensuration and estimation of material cost	<a href="https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing">https://drive.google.com/file/d/101CLJwgPyNWo6lZ4T0vkDpXallgYZQH/view?usp=sharing</a>
	December- Week-IV			

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<b>Academic Year:</b> 2020-2021		<b>Semester:</b> V	<b>Course:</b> Design of Machine Elements - I	<b>Course Code:</b> 18ME52
<b>Serial No:</b>	<b>Date</b>	<b>Module</b>	<b>Topics Covered</b>	<b>Material link (Video/ppt/Notes/ Question Bank)</b>
1	December -Week-I	Module-2	Stress concentration	<a href="https://drive.google.com/drive/u/1/my-drive">https://drive.google.com/drive/u/1/my-drive</a>
2			Stress concentration factor and methods of reducing stress concentration	<a href="https://youtu.be/AnDv3pL2lRY">https://youtu.be/AnDv3pL2lRY</a>
3			Fatigue loading: Introduction to fatigue failure	<a href="https://youtu.be/OlexdbPETPw">https://youtu.be/OlexdbPETPw</a>
4			Mechanism of fatigue failure	<a href="https://youtu.be/wMVKkCiW7Ds">https://youtu.be/wMVKkCiW7Ds</a>
5	December -Week-II	Module-2	Types of fatigue loading, S-N Diagram	<a href="https://drive.google.com/drive/u/1/my-drive">https://drive.google.com/drive/u/1/my-drive</a>
6			Low cycle fatigue, High cycle fatigue, Endurance limit	<a href="https://youtu.be/OdWk7Q1KYwE">https://youtu.be/OdWk7Q1KYwE</a>
7			Modifying factors: size effect, surface effect	<a href="https://youtu.be/Ynf6FdveANI">https://youtu.be/Ynf6FdveANI</a>
8			Stress concentration effects Notch sensitivity,	<a href="https://youtu.be/s0NStv94BF0">https://youtu.be/s0NStv94BF0</a>
9	December -Week-III	Module-2	Soderberg and Goodman relationships	<a href="https://youtu.be/f7KcxGbc32M">https://youtu.be/f7KcxGbc32M</a>
10			Stresses due to combined loading	<a href="https://youtu.be/o6XIseKbhMU">https://youtu.be/o6XIseKbhMU</a>
11			Cumulative fatigue damage, and Miner's equation	<a href="https://youtu.be/OI_ZnhmZUI4">https://youtu.be/OI_ZnhmZUI4</a>
12			Numericals	
13	December	Module -3	Design of keys and couplings	<a href="https://youtu.be/hQclJAgVM8Q">https://youtu.be/hQclJAgVM8Q</a>

14	-Week-IV		Keys: Types of keys and their applications	<a href="https://youtu.be/UZ0ks20bLEE">https://youtu.be/UZ0ks20bLEE</a>
15			design considerations in parallel and tapered sunk keys	<a href="https://youtu.be/2EwU-Edsl8Y">https://youtu.be/2EwU-Edsl8Y</a>
16			Design of square and rectangular sunk keys	<a href="https://youtu.be/VQ-dGCd090I">https://youtu.be/VQ-dGCd090I</a>

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<b>Academic Year: 2020-2021</b>		<b>Semester: V</b>		<b>Course: Fluid Power Engineering</b>		<b>Course Code: 18ME55</b>	
<b>Serial No:</b>	<b>Date</b>	<b>Module</b>	<b>Topics Covered</b>	<b>Material link (Video/ppt/Notes/ Question Bank)</b>			
1	December- Week-I	Module-3	Components:Classification of control valves, Directional Control Valves-symbolic representation, constructional features of poppet, sliding spool,	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>			
2			Rotary type valves solenoid and pilot operated DCV, shuttle valve, and check valves. Pressure control valves - types, direct operated types and pilot operated types.	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>			
3			Flow Control Valves - compensated and non-compensated FCV, needle valve, temperature compensated, pressure compensated, pressure and temperature compensated FCV, symbolic representation. Hydraulic Circuit	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>			
4			Design:Control of single and Double -acting hydraulic cylinder, regenerative circuit, pump unloading circuit, double pump hydraulic system, counter balance valve	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>			
	December- Week-II			<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>			

5			Application hydraulic cylinder sequencing circuits, cylinder synchronizing circuit using different methods, hydraulic circuit for force multiplication; speed control of hydraulic cylinder	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>
6			Metering in, metering out and bleed off circuits. Pilot pressure operated circuits. Hydraulic circuit examples with accumulator.	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMTk5/details</a>
7		Module-4	Introduction to Pneumatic systems: Pneumatic power system, advantages, limitations, applications, Choice of working medium.	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>
8			Characteristics of compressed air and air compressors. Structure of pneumatic control System, fluid conditioners-dryers and FRL unit.	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>
9			Pneumatic Actuators: Linear cylinder –types of cylinders, working, end position cushioning, seals, mounting arrangements, and applications.	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>
	December-Week-III			<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>
10			Rotary cylinders- types, construction and application, symbols. Pneumatic Control Valves: DCV such as poppet, spool,	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>
11	December-Week-IV		Suspended seat type slide valve,	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>

			pressure control valves, flow control valves, types and construction, use of memory valve	<a href="#">yODgxMjM3/details</a>
12			Quick exhaust valve, time delay valve, shuttle valve, twin pressure valve, symbols,	<a href="https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details">https://classroom.google.com/u/1/c/MTMyMDk2NTg2MDkx/m/MjM4MDEyODgxMjM3/details</a>

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<b>Academic Year: 2020-2021</b>		<b>Semester: V</b>		<b>Course: Operations Management</b>		<b>Course Code: 18ME56</b>	
<b>Serial No:</b>	<b>Date</b>	<b>Module</b>	<b>Topics Covered</b>	<b>Material link (Video/ppt/Notes/ Question Bank)</b>			
1	December- Week-I	Module -4	Aggregate Planning & Master Scheduling: Aggregate planning -	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
2			Nature and scope of aggregate planning,	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
3			strategies of aggregate planning, techniques for aggregate planning	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
4			graphical and charting techniques,	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
5	December- Week-II		Mathematical techniques.	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
6			The master production schedule	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
7			Master scheduling process,	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
8			Master scheduling methods.	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
9	December- Week-III	Module -5	Material Requirement Planning (MRP): Dependent versus independent demand, an overview of MRP	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
10			MRP inputs and outputs	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
11			MRP processing, ERP capacity requirement planning	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr cqKOU_vK</a>			
12			Benefits and limitations of MRP.	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr</a>			



			Purchasing and Supply Chain Management (SCM)	cqKOU_vK
13	December- Week-IV		Introduction, Importance of purchasing and SCM, the procurement process,	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr</a> cqKOU_vK
14			Concept of tenders,	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr</a> cqKOU_vK
15			Approaches to SCM	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr</a> cqKOU_vK
16			Vendor development.	<a href="https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr">https://drive.google.com/drive/folders/1HN7TU8u26T1fVsWC2dzvrWmr</a> cqKOU_vK