



Kot Bhalwal, Jammu



Model Institute of Engineering  
& Technology (Autonomous)  
Dr. Arun K. Gupta Teaching-Learning Centre

## Department of BBA

### Details of Lesson Plan

S.No.	Particulars	Details
1.	Course Name	Operations Management
2.	Course Code	BFSMJ-403
3.	Academic Year	2024-25
4.	Semester	4th
5.	Number of Lesson plans	32
6.	Faculty Assigned	Ms. Shivani Kanaria

Faculty Signature



<b>Lesson Plan No. 1.0</b>	<b>Course Name: Operations Management</b>	<b>Course No.: BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ol style="list-style-type: none"> <li>Understand the concept of Production and Operations Management (POM).</li> <li>Differentiate between production and operations.</li> <li>Identify key functions of POM.</li> </ol>
<b>Teaching Aids (if any)</b>	<ol style="list-style-type: none"> <li>Power Point Presentation</li> </ol>
<b>Teaching Development</b>	<ol style="list-style-type: none"> <li><b>Introduction</b> (5 minutes)           <ul style="list-style-type: none"> <li>Ask students: “What comes to mind when you hear ‘Production and Operations Management’?”</li> <li>Discuss real-life examples of production and operations in different industries.</li> </ul> </li> <li><b>Development</b> (30 minutes)           <p><b>Concept of Production and Operations Management</b></p> <ul style="list-style-type: none"> <li>Definition and scope</li> <li>Importance in different industries</li> </ul> <p><b>Production and Operations Management Systems</b></p> <ul style="list-style-type: none"> <li>Job production system</li> <li>Batch production system</li> <li>Mass production system</li> <li>Continuous production system</li> </ul> <p><b>Product Design</b></p> <ul style="list-style-type: none"> <li>Elements of product design</li> <li>Importance of design in product development</li> <li>Examples of good and poor product design</li> </ul> </li> <li><b>Exercise</b> (5 minutes) – Students identify a product or service and outline the operations management processes involved.</li> </ol>
<b>Closure</b>	<p>Summarize the Lesson Learning Outcomes and get affirmation from students on these.</p> <p>Spend 5 minutes to wrap up and consolidate the learnings</p>
<b>Evaluation</b>	<p>Reflective Questions (What, Why, Who?). Allow students to answer and discuss.</p> <p>Spend 5 minutes to evaluate student assimilation of the lesson contents</p>



<b>Lesson Plan No. 1.1</b>	<b>Course Name: Operations Management</b>	<b>Course No.: BFSMJ-403</b>
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<b>Objectives</b>	<p>At the end of the lesson the student shall be able to:</p> <ul style="list-style-type: none"> <li>- Define production and operations management.</li> <li>- Explain the key functions of production and operations management.</li> <li>- Understand the role of production and operations management in business success.</li> </ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<p><b>1. Introduction (5 minutes)</b> Ask students: “What comes to mind when you hear ‘Production and Operations Management’?”</p> <p><b>2. Development (30 minutes)</b> <b>Concept of Production and Operations Management</b></p> <ul style="list-style-type: none"> <li>o Definition and scope</li> <li>o Relationship with business strategy</li> <li>o Importance in different industries</li> </ul> <p><b>Functions of Production and Operations Management</b></p> <ul style="list-style-type: none"> <li>o <b>Forecasting:</b> Estimating future demand for products and services.</li> <li>o <b>Capacity Planning:</b> Ensuring production meets customer demand.</li> <li>o <b>Scheduling:</b> Planning work to optimize efficiency.</li> <li>o <b>Quality Management:</b> Maintaining product and service standards.</li> <li>o <b>Supply Chain Management:</b> Coordinating materials, suppliers, and logistics.</li> <li>o <b>Inventory Management:</b> Controlling stock levels to balance cost and availability.</li> </ul> <p><b>Production and Operations Management Systems</b></p> <ul style="list-style-type: none"> <li>o Job production system</li> <li>o Batch production system</li> <li>o Mass production system</li> <li>o Continuous production system</li> </ul> <p><b>3. Exercise (5 minutes) –</b> Students identify a product or service and outline how production and operations management contribute to its success.</p>
<b>Closure</b>	<p>Summarize the Lesson Learning Outcomes and get affirmation from students on these.</p> <p>Spend 5 minutes to wrap up and consolidate the learnings</p>
<b>Evaluation</b>	<p>Reflective Questions (What, Why, Who?). Allow students to answer and discuss.</p> <p>Spend 5 minutes to evaluate student assimilation of the lesson contents</p>



<b>Lesson Plan No. 1.2</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"><li>- To understand the concept of Production and Operations Management Systems.</li><li>- Be able to provide the criteria for Operations Management systems.</li><li>- Understand the components of Operations Management Systems.</li></ul>	
<b>Teaching Aids (if any)</b>	Power Point Presentation	
<b>Teaching Development</b>	<ol style="list-style-type: none"><li><b>1. Introduction (5 minutes)</b><ul style="list-style-type: none"><li>- Ask questions</li><li>- Summarize the learning of previous lecture.</li><li>- Define different systems like Tally, what are there uses, Reasons for their use?</li><li>- Why are the systems important in today's business world?</li><li>- How the functions of Operations Management performed through Operation Management system?</li></ul></li><li><b>2. Development (35 minutes)</b><ul style="list-style-type: none"><li>- Define Software with examples.</li><li>- Define Operation Management system.</li><li>- Criteria of Operation Management System.</li><li>- Components of Operation Management Systems.</li><li>- Benefits of Operation Management Systems.</li><li>- Examples of Operation Management Systems.</li></ul></li><li><b>3. Exercise (5 minutes) –</b> Cases to be discussed</li></ol>	
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.	
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents	



<b>Lesson Plan No. 1.3</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"> <li>- Understand meaning of Product Design.</li> <li>- Various elements of Product design.</li> <li>- Stages of new product development</li> </ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<p><b>1. Introduction (5 minutes)</b></p> <ul style="list-style-type: none"> <li>- Ask questions</li> <li>- Summarize previous lecture.</li> <li>- Differentiate between products and services.</li> <li>- For designing a new product what do you think are the elements you will need?</li> </ul> <p><b>2. Development (35 minutes)</b></p> <ul style="list-style-type: none"> <li>- Define Product design</li> <li>- Factors affecting Product design.</li> <li>- Explain the concept of New Product Development.</li> <li>- Explain the stages.</li> <li>- Explain product life cycle.</li> <li>- Discuss various elements of Product design.</li> </ul> <p><b>3. Exercise (5 minutes) –</b></p> <ul style="list-style-type: none"> <li>- Divide the class in Groups of 10 each.</li> <li>- As an Operation Manager designing a plant of - (Nuclear, steel, Laptop, Bags, Clothing) What will be your responsibilities.</li> </ul>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 1.4</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"> <li>- Understand the concept of Process design.</li> <li>Various types of Process design</li> </ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<p><b>1. Introduction</b> (5 minutes)</p> <p>Ask questions</p> <ul style="list-style-type: none"> <li>- What are process</li> <li>- Why transformation process is called as Value addition</li> <li>- Different types of processes used on various products (ex. Cloth, banks, fintech , etc.)</li> </ul> <p><b>2. Development</b> (35 minutes)</p> <ul style="list-style-type: none"> <li>- Define Process</li> <li>- Define process design</li> <li>- Explain the various examples of process design from industry</li> <li>- Various types of process design</li> <li>- Characteristics and difference between various process design.</li> <li>- Examples.</li> </ul> <p><b>3. Exercise</b> (5 minutes) –</p> <ul style="list-style-type: none"> <li>- Divide the class in Groups of 10 each.</li> <li>- As an Operation Manager designing a plant of - (Nuclear, steel, Laptop, Bags, Clothing) What will be your responsibilities.</li> </ul>
<b>Closure</b>	<p>1. Summarize the lesson learning outcomes and get affirmation from students on these.</p> <p>Spend 5 minutes to wrap up and consolidate the learning's.</p>
<b>Evaluation</b>	<p>1. Reflective Questions (What, Why, How?). Allow students to answer and discuss.</p> <p>Spend 5 minutes to evaluate student assimilation of the lesson contents</p>



<b>Lesson Plan No. 1.5</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"> <li>- Define process design and explain its importance.</li> <li>- Identify and describe different types of process design.</li> <li>- Analyze real-world examples of various process designs in industries.</li> </ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ol style="list-style-type: none"> <li><b>1. Introduction (5 minutes)</b> <ul style="list-style-type: none"> <li>- Definition of process design</li> <li>- Importance of process design in operations management</li> <li>- Relationship between process design and business performance</li> <li>- Key considerations in process design (efficiency, cost, flexibility, quality)</li> </ul> </li> <li><b>2. Development (35 minutes)</b> <p><b>Types of Process Design</b></p> <ul style="list-style-type: none"> <li>• <b>Job/Project-Based Process</b> <ul style="list-style-type: none"> <li>○ Characteristics: customized, low-volume, high-skill requirement</li> <li>○ Examples: construction projects, aircraft manufacturing</li> </ul> </li> <li>• <b>Batch Process</b> <ul style="list-style-type: none"> <li>○ Characteristics: moderate volume, grouped production</li> <li>○ Examples: bakery, clothing production</li> </ul> </li> <li>• <b>Mass/Flow Process</b> <ul style="list-style-type: none"> <li>○ Characteristics: high-volume, standardized, repetitive operations</li> <li>○ Examples: automobile assembly lines, food processing</li> </ul> </li> <li>• <b>Continuous Process</b> <ul style="list-style-type: none"> <li>○ Characteristics: highly automated, uninterrupted production flow</li> <li>○ Examples: oil refining, chemical production</li> </ul> </li> <li>• <b>Hybrid Process (Flexible Manufacturing Systems)</b> <ul style="list-style-type: none"> <li>○ Combination of different processes</li> <li>○ Examples: modern manufacturing systems using automation and robotics</li> </ul> </li> </ul> </li> <li><b>3. Exercise (5 minutes) –</b></li> </ol>



	<ul style="list-style-type: none"><li>• Students form small groups and select a business (e.g., a coffee shop, a smartphone manufacturer)</li><li>• Each group outlines the process design used and suggests improvements</li><li>• Groups present their findings briefly</li></ul>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 2.1</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"> <li>- Understand the concept of services.</li> <li>- Differentiate between goods and services.</li> <li>- Classify the various kinds of services.</li> </ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<p><b>1. Introduction</b> (5 minutes) Ask questions</p> <ul style="list-style-type: none"> <li>- What do you mean by Service</li> <li>- How do you differentiate them from goods</li> <li>- What different kinds of services have you used</li> </ul> <p><b>2. Development</b> (35 minutes)</p> <ul style="list-style-type: none"> <li>- Define Services with examples</li> <li>- Characteristics of services</li> <li>- Tabulate the difference between goods and services.</li> <li>- Classification of services on different basis.</li> </ul> <p><b>3. Exercise</b> (5 minutes) – Ask them about the various services they know about and their features.</p>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 2.2</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"><li>- Understand the process of designing various services.</li><li>- Understand what are high contact and low contact services</li><li>- Understand Assembly line approach.</li></ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ol style="list-style-type: none"><li>1. <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>- Ask questions</li><li>- Summarize previous lectures</li><li>- Use of assembly line process</li><li>- Examples of high contact and low contact services</li></ul></li><li>2. <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>- Explain the process of designing service processes</li><li>- .What are the different approaches.</li><li>- How a high contact service different from low contact service</li><li>- Where are assembly lines used in service industry</li></ul></li><li>3. <b>Exercise</b> (5 minutes) – Cases to be discussed.</li></ol>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 2.3</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Service blueprint.	
<b>Teaching Aids (if any)</b>	Power Point Presentation	
<b>Teaching Development</b>	<p><b>1. Introduction (5 minutes)</b></p> <ul style="list-style-type: none"> <li>- Ask questions</li> <li>- Summarize previous lecture.</li> <li>- What is blueprint</li> <li>- Why do we need blueprint</li> <li>- How are blueprints helpful in service industry</li> </ul> <p><b>2. Development (35 minutes)</b></p> <ul style="list-style-type: none"> <li>- Define Service blueprint.</li> <li>- Features of service blueprint.</li> <li>- Discuss an example of service blueprint</li> </ul> <p><b>3. Exercise (5 minutes) –</b> Design a blueprint of Car Rental company.</p>	
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.	
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents	



<b>Lesson Plan No. 2.4</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: <ul style="list-style-type: none"><li>- Understand the concept of service quality</li><li>- Measuring service quality</li><li>- Service gap analysis.</li></ul>
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ol style="list-style-type: none"><li><b>1. Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>- Ask questions</li><li>- Define quality</li><li>- Concept of Service quality</li><li>- What are the gaps you have found while using services explain with the help of example.</li></ul></li><li><b>2. Development</b> (35 minutes)<ul style="list-style-type: none"><li>- Define the concept of service quality</li><li>- Benchmark of service quality</li><li>- .Measuring service quality using SERVQUAL.</li><li>- Service gap analysis.</li></ul></li><li><b>3. Exercise</b> (5 minutes) – Service gap analysis in a restaurant of your choice.</li></ol>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 2.5</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Service Capacity. Understand the concept of Yield Management.	
<b>Teaching Aids (if any)</b>	Power Point Presentation	
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ What is Service capacity</li><li>○ What are the strategies for service capacity planning</li><li>○ What do you mean by Yield</li></ul></li><li>• <b>Development</b> (35 minutes)<ol style="list-style-type: none"><li>1. Define Service Capacity</li><li>2. Strategies for capacity planning</li><li>3. Define Yield management</li><li>4. .Explain the concept and challenges.</li></ol></li><li>• Exercise (5 minutes) – Discuss the case study.</li></ul>	
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.	
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents	



<b>Lesson Plan No. 3.1</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Plant Location. Various factors affecting the selection of Plant location
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b> (5 minutes) <ul style="list-style-type: none"> <li>○ Ask questions</li> <li>○ Factors which help in deciding plant location.</li> <li>○ Discuss examples</li> </ul> </li> <li>• <b>Development</b> (35 minutes) <ol style="list-style-type: none"> <li>5. Concept of Plant Location</li> <li>6. Factors affecting various plant locations</li> <li>7. Discuss various examples.</li> <li>8. Exercise (5 minutes) – Divide the class into groups. Decide a plant location for different factories.</li> </ol> </li> </ul>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these. Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 3.2</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the various methods for Facility Location Planning	
<b>Teaching Aids (if any)</b>	Power Point Presentation	
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the previous lecture.</li><li>○ From a list of factors what are the most important ones.</li><li>○ How will you differentiate the important factors from least important ones?</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Discuss the various methods of Facility Location Planning</li><li>• Discuss Factor Rating method</li><li>• Discuss various questions related to it.</li><li>• Exercise (5 minutes) – Discuss the case of Biocon.</li></ul></li></ul>	
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these.  Spend 5 minutes to wrap up and consolidate the learning's.	
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss.  Spend 5 minutes to evaluate student assimilation of the lesson contents	



<b>Lesson Plan No. 3.3</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the methods of Facility Planning Understand and apply the method of break-even analysis
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the previous lecture.</li><li>○ Methodology used in Factor Rating Method</li><li>○ Concept of Break-even analysis.</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Concept of Break-even analysis for Facility Location Planning.</li><li>• Explain the graphs showing TR, TC and the break even volume.</li><li>• Discuss the numerical.</li><li>• Exercise (5 minutes) – Discuss a case study.</li></ul></li></ul>
<b>Closure</b>	Summarize the lesson learning outcomes and get affirmation from students on these.  Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	Reflective Questions (What, Why, How?). Allow students to answer and discuss.  Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 3.4</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Centre of Gravity for Facility Location Planning
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the previous lecture</li><li>○ What do you understand by the word co-ordinates?</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Explain the concept of coordinates.</li><li>• Explain the method of Centre of gravity</li><li>• Solve Numerical.</li><li>• Differentiate between the 3 methods.</li><li>• Exercise (5 minutes) – Case to be discussed.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 3.5</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Plant Layout. Objectives of Plant Layout. Design a Plant Layout
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Concept of Plant Layout.</li><li>○ What different layouts have you seen?</li><li>○ How a layout helps an organization?</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Explain the concept of Plant Layout</li><li>• What are the objectives of a good Plant Layout?</li><li>• Benefits of a plant layout</li><li>• Types of plant layout</li><li>• Exercise (5 minutes) – Design a plant layout.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 3.6</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Plant layout Factors affecting Plant Layout.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the previous lecture</li><li>○ What are the different factors affecting plant layout.</li><li>○ How are these different from Facility Location Planning?</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Types of Plant layout</li><li>• Differentiate between these types.</li><li>• Factors affecting layout</li><li>• Exercise (5 minutes) – Design a Plant Layout.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 4.1</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Quality Dimensions of Quality
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b> (5 minutes) <ul style="list-style-type: none"> <li>○ Ask questions</li> <li>○ What do you understand by the term quality</li> <li>○ When you buy a product what quality measures do you expect.</li> </ul> </li> <li>• <b>Development</b> (35 minutes) <ul style="list-style-type: none"> <li>• Define Quality</li> <li>• Evolution of quality</li> <li>• Various techniques of Quality</li> <li>• Dimensions of Quality</li> <li>• Exercise (5 minutes) – Discuss case of Toyota</li> </ul> </li> </ul>
<b>Closure</b>	<ul style="list-style-type: none"> <li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li> </ul> <p>Spend 5 minutes to wrap up and consolidate the learning's.</p>
<b>Evaluation</b>	<p>1. Reflective Questions (What, Why, How?). Allow students to answer and discuss.</p> <p>Spend 5 minutes to evaluate student assimilation of the lesson contents</p>



<b>Lesson Plan No. 4.2</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Quality Management. Process of Quality management.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Different quality control methods</li><li>○ Evolution of quality management</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Define quality management</li><li>• Features of quality management</li><li>• Importance of Quality management in industry</li><li>• Quality management as a competitive edge for an organization</li><li>• Process of Quality management.</li></ul></li></ul> Exercise (5 minutes) – Case study of Toyota.
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 4.3</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Statistical Quality control and Process Control.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the previous lecture</li><li>○ Reasons for measuring quality controls</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Explain the concept of statistical control.</li><li>• Numerical</li><li>• Explain the concept of Process control</li><li>• Numerical</li><li>• Exercise (5 minutes) – Discuss case</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 4.4</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Acceptance Sampling.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Meaning of sampling</li><li>○ Methods of sampling</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Explain the concept of acceptance sampling</li><li>• Numericals</li><li>• Exercise (5 minutes) – Cases to be discussed.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 4.5</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of TQM.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Total Quality</li><li>○ Previously discussed Quality methods</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Define TQM</li><li>• Evolution of TQM</li><li>• Features of TQM</li><li>• Benefits of TQM</li></ul></li><li>• <b>Exercise</b> (5 minutes) – Cases to be discussed.</li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 4.6</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Six Sigma.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Quality control</li><li>○ Quality Control methods</li><li>○ Benefits of Quality Control</li><li>○ Quality control as a competitive advantage</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Explain the concept of Six sigma</li><li>• Features</li><li>• Advantages</li><li>• Exercise (5 minutes) – Case to be discussed.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 5.1</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Strategies such as Business grand and Operations. Relationship between Operations and Business Grand Strategy.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b> (5 minutes) <ul style="list-style-type: none"> <li>○ Ask questions</li> <li>○ Various strategies studied in Strategic management.</li> <li>○ Summarize the concepts of product development, conglomerate, liquidation, vertical and horizontal integration</li> </ul> </li> <li>• <b>Development</b> (35 minutes) <ul style="list-style-type: none"> <li>• Relationship between Business grand strategy and organizational efficiency</li> <li>• Diagrammatically explain the relation between business grand strategy and operation strategy</li> <li>• Explain various strategies:- Concentration Market development</li> </ul> </li> <li>• Exercise (5 minutes) – Revise the various strategies .</li> </ul>
<b>Closure</b>	<ul style="list-style-type: none"> <li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li> </ul> <p>Spend 5 minutes to wrap up and consolidate the learning's.</p>
<b>Evaluation</b>	<p>1. Reflective Questions (What, Why, How?). Allow students to answer and discuss.</p> <p>Spend 5 minutes to evaluate student assimilation of the lesson contents</p>



<b>Lesson Plan No. 5.2</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the various types of Business grand strategies.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the previous lecture.</li><li>○</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Continue from the previous lecture</li><li>• Explain the various strategies:- Product Development Horizontal Integration Vertical Integration Joint Venture</li></ul></li><li>• Exercise (5 minutes) – Discuss various cases.</li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 5.3</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand various types of Business Grand Strategies.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"> <li>• <b>Introduction</b> (5 minutes) <ul style="list-style-type: none"> <li>○ Ask questions</li> <li>○ Summarize the previous lecture.</li> </ul> </li> <li>• <b>Development</b> (35 minutes) <ul style="list-style-type: none"> <li>• Continue from the previous lecture.</li> <li>• Explain the various Business Grand Strategies:- <ul style="list-style-type: none"> <li>Concentric diversification</li> <li>Conglomerate diversification</li> <li>Turnaround</li> <li>Divestiture</li> <li>Liquidation</li> </ul> </li> </ul> </li> <li>• Exercise (5 minutes) – Discuss various cases.</li> </ul>
<b>Closure</b>	<ul style="list-style-type: none"> <li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li> </ul> <p>Spend 5 minutes to wrap up and consolidate the learning's.</p>
<b>Evaluation</b>	<p>1. Reflective Questions (What, Why, How?). Allow students to answer and discuss.</p> <p>Spend 5 minutes to evaluate student assimilation of the lesson contents</p>



<b>Lesson Plan No. 5.4</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the dimensions of Operations for Competitive Advantage.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ What do you mean by competitive advantage?</li><li>○ How does competitive advantage helps an organization achieve its objective.</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Explain various dimensions of operations for competitive advantage such as: Product/service quality Cost of production Delivery speed and reliability Introduction of new products/feature/models After sales service</li><li>• Exercise (5 minutes) – Discuss cases.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 5.5</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Linear Programming Apply the various methods and solve the questions.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize previous lecture.</li><li>○ Know about their level of knowledge about graphs.</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Concept of Linear programming.</li><li>• Concept of allocation of resources.</li><li>• Solve numerical using different methods of Linear Programming.</li><li>• Exercise (5 minutes) – Solve numerical graphically.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 5.6</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand the concept of Linear Programming Apply the various methods and solve the questions.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize previous lecture.</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Linear Programming:-Simplex Method.</li><li>• Solve numerical using simplex method of Linear Programming.</li><li>• Exercise (5 minutes) – Solve numerical.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



<b>Lesson Plan No. 5.7</b>	<b>Course Name: Operations Management</b>	<b>Course No. BFSMJ-403</b>
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<b>Objectives</b>	At the end of the lesson the student shall be able to: Understand and apply various concepts of Operations Management.
<b>Teaching Aids (if any)</b>	Power Point Presentation
<b>Teaching Development</b>	<ul style="list-style-type: none"><li>• <b>Introduction</b> (5 minutes)<ul style="list-style-type: none"><li>○ Ask questions</li><li>○ Summarize the case study</li><li>○ Analysis of case study</li></ul></li><li>• <b>Development</b> (35 minutes)<ul style="list-style-type: none"><li>• Discuss the case study.</li><li>• Analyze various operations strategies.</li><li>• Apply various operation management concepts</li><li>• Solve the questions attached along with case study.</li></ul></li></ul>
<b>Closure</b>	<ul style="list-style-type: none"><li>• Summarize the lesson learning outcomes and get affirmation from students on these.</li></ul> Spend 5 minutes to wrap up and consolidate the learning's.
<b>Evaluation</b>	1. Reflective Questions (What, Why, How?). Allow students to answer and discuss. Spend 5 minutes to evaluate student assimilation of the lesson contents



# Model Institute of Engineering & Technology (Autonomous) Lesson Plan

Kot, Bhalwal, Jammu



Dr. Arun K. Gupta Teaching-Learning Centre

Version 1.1



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