



# MODEL CURRICULUM

MICROBIOLOGICAL PRACTICES IN PHARMACEUTICAL INDUSTRY  
COURSE CODE: BC006

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**Name of Syllabus: Microbiological Practices in Pharmaceutical Industry**

**Course Code: BC006**

**Sector: Life science & Pharmaceutical Industry**

**CURRICULUM/SYLLABUS**

The program is aimed at training candidates for the job of a “ QC/QA/R&D/ADL -Pharma and Life Sciences “, in the “Life sciences” Sector/Industry and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>Pharmaceutical Entrepreneurship</b>
<b>Version No.</b>	01
<b>Version Update date</b>	11OCT2022
<b>Pre- requisites to Training</b>	BSc./MSc./B. Pharm / M. Pharm / Ph.D., Pharm D, Pharma Faculties – Pharmacy & Life Science (any specialization)
<b>Training Outcomes</b>	<ul style="list-style-type: none"> <li>• <b>After completing this program, participants will be able to gain knowledge about:</b></li> <li>• What is Pharmaceutical Microbiology</li> <li>• Scope of Pharmaceutical Microbiology</li> <li>• Prerequisites of Microbiological Practices</li> <li>• Microbiological GMP Requirements in Pharmaceutical industry</li> <li>• Concept of Aseptic</li> <li>• Concept of clean rooms</li> <li>• Common Instruments used in microbiology department</li> <li>• Different types of Microbiological tests in Pharmaceutical industry</li> </ul>

**Module No.: 1**

**Theory Duration: 3.00 Hrs**

**Evaluation: 0.30 Hrs**

Category	Division	Key Learning Outcomes	Equipment Required
A.	Theory	<ul style="list-style-type: none"> <li>• Introduction               <ul style="list-style-type: none"> <li>✓ What is Pharmaceutical Microbiology</li> <li>✓ Scope of Pharmaceutical Microbiology</li> </ul> </li> <li>• Prerequisites of Pharmaceutical Microbiology               <ul style="list-style-type: none"> <li>✓ GMP Regulations</li> <li>✓ Aseptic Pharmaceutical Sterile Areas</li> <li>✓ Microbiological Culture Media</li> <li>✓ Instruments</li> </ul> </li> <li>• Microbiological Tests               <ul style="list-style-type: none"> <li>✓ Sterility Testing</li> <li>✓ Endotoxin Testing</li> <li>✓ Microbial Limit Test</li> <li>✓ Bio burden</li> <li>✓ Environment Monitoring</li> <li>✓ Growth Promotion Test</li> <li>✓ Antimicrobial (Preservative) Effectiveness Testing</li> <li>✓ Disinfectant Efficacy Testing</li> </ul> </li> </ul>	Computer system, Internet, mobile

<b>Category</b>	<b>Division</b>	<b>Key Learning Outcomes</b>	<b>Equipment Required</b>
B.	Continuous Evaluation Assessment	Evaluation of all topics covered in the Orientation Module	Computer system, Internet, mobile