

**MHH-013**

**Master of Business Administration Hospital and Health Management  
(MBAHCHM)**

**ASSIGNMENT  
For  
July 2025 and January 2026 Sessions**

**MHH 013: Support and Utility Services  
(Last date of submission for July 2024 session is 31<sup>st</sup> October, 2025, and for January 2026 session is 30<sup>th</sup>  
April, 2026)**

**School of Health Sciences  
INDIRA GANDHI NATIONAL OPEN UNIVERSITY MAIDAN GARHI,  
NEW DELHI – 110 068  
ASSIGNMENT**



**Dear Student,**

As explained in the Programme Guide, there are four assignments in total in 3<sup>rd</sup> semester of MBAHCHM and **all** these assignments are compulsory. Please note that the assignments carry a weightage of 30% marks towards the final evaluation in theory component and **submission of related assignments is a prerequisite** for appearing in theory term-end examination for respective papers. It is always better if you can submit all assignments as early as possible.

Course Code	Blocks Involved	Assignment Code
MHH 013	1, 2, 3, and 4	MHH 013/TMA/2025

Please take note of the following points before writing your assignments:

- Use only foolscap A4 size paper for writing your responses. Only handwritten assignments will be accepted. Typed or printed copies of assignments will not be accepted.
- Tie the pages after numbering them carefully.
- Write the questions and question number with each answer.
- All the questions are compulsory.
- **Zero marks will be given if it is found that the answers were copied from other student**
- Every assignment will be evaluated out of a full mark of 100. Weightage is indicated in parentheses against each question.

**Suggestions for writing an assignment:**

Read the assignments carefully. Go through the units on which the answers are based. Draw a rough outline of your answer. Make a logical order. Then write your answer neatly and submit. Give illustrations and tables wherever necessary. You may keep a photocopy of the answer sheets for future reference.

Answer each assignment in separate sheets. On the first page of the assignment response sheet, write the programme code, course code, course title, assignment code, name of your programme study centre and date of submission. Your Roll No., Name and Full address should be mentioned in the top right corner of the first page. The first page of your response sheet should look like the format given below.

**Please submit the assignments to your Regional Centre only**

Programme Code: _____	Enrollment No. _____
Course Code _____	Name _____
Course Title _____	Address _____
Assignment Code _____	_____
PSC _____	_____
Date of Submission _____	

**1. Your assignment will be evaluated out of 100 marks and converted into grades**

The following is the system of converting the overall letter grades to percentage equivalents:

- A = 80% and Above
- B = 60% to 79.9%
- C = 50% to 59.9%
- D = 40% to 49.9%
- E = Below 40%

- A = Excellent
- B = Very Good
- C = Good
- D = Satisfactory
- E = Unsatisfactory

**There is one assignment per course. You are required to score an overall (weightage of term end and assignment) ‘C’ grade for the successful completion of that course.**

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Course Code	:	MHH-013
Course Title	:	Clinical & Diagnostics Services
Assignment Code	:	MHH-013/TMA/JULY/2025
Coverage	:	All Blocks

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**Note: Attempt all the questions and submit this assignment to the Regional Director of your Regional Centre.**  
Last date of submission for the July 2025 session is 31<sup>st</sup> October, 2025, and for the January 2026 session is 30<sup>th</sup> April, 2026.

**1. Answer each of the following questions in around 1000 words 2 x 15 marks**

- a. What is Ayushman Bharat Digital Mission (ABDM)? Describe briefly the Components of ABDM.
- b. Discuss the significance of biomedical waste management in healthcare settings. How can hospital leadership ensure compliance, safety, and sustainability in line with the Biomedical Waste Management Rules, 2016 (amended 2019)?

**2. Read the following case study carefully. Answer in 500-700 words each. 10 marks**

CityCare Super Specialty Hospital, a 300-bed tertiary care center located in a metropolitan city, is planning to upgrade its medical gas supply infrastructure. Currently, the hospital relies primarily on cylinder-based systems for supplying oxygen, nitrous oxide, medical air, and vacuum. Due to increasing demand, patient safety concerns, and recommendations from the Quality Assurance Committee, the hospital administration has decided to install a **Centralized Medical Gas Pipeline System (MGPS)** integrated with a Liquid Medical Oxygen (LMO) tank.

During the planning stage, the hospital management faces the following challenges:

- Determining the **need assessment** for current and future gas requirements, especially in ICUs, OTs, and HDUs.
- Deciding the **appropriate location and safety design** for the LMO tank and manifold room as per statutory norms.
- Ensuring **redundancy** in gas supply with proper zoning and backup systems.
- Evaluating the **cost implications** of centralized MGPS versus PSA oxygen plants in resource-limited departments.
- Managing **statutory requirements**, including compliance with Indian Explosives Act and ISO 7396 standards.

**Assignment Tasks:**

- 2.1** As a healthcare management professional, identify and describe *three critical considerations* that must be assessed before installing the MGPS at CityCare Hospital. (3 marks)
- 2.2** Outline the *statutory and safety standards* applicable to the installation of MGPS and LMO tank in the hospital. (2 marks)
- 2.3** Discuss the *advantages and disadvantages* of using LMO tanks over PSA-based oxygen plants in the context of this hospital. (3 marks)

- 2.4 Recommend *two measures* to ensure continuity and safety of gas supply during a potential failure in the centralized system. (2 marks)

3. **Answer the following short notes in 500 to 700 words**

6 x 10 Marks

- a. Describe the accreditation process in healthcare and how it contributes to improving patient safety.
- b. Name and describe at least three technologies or tools used to enhance patient safety in healthcare.
- c. Discuss the CSSD Reuse policy
- d. Classify the types of diet in health care and describe therapeutic diet
- e. Describe the Categories of linen in hospital
- f. Discuss the medium term measures for fire safety