



## MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

**Grade 'A' Accredited by NAAC**

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# Value Added Course

## Hospital Associated Infections: Prevention and Control

  
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KAMOTHE, NAVI MUMBAI



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**N-6 CIDCO, Aurangabad – 431003**  
**DEPARTMENT OF MICROBIOLOGY**

**Annexure-18A of AC-42/2022**

**Value added course by department of Microbiology (Aurangabad)**

**Topic:-Hospital associated Infections: Prevention and Control for 2nd Year MBBS students:**

**Name of the course:** Hospital associated Infections: Prevention and Control

**Eligibility:** 2<sup>nd</sup> MBBS

**Course Description:** It is a short certificate course aimed at providing adequate Knowledge to 2<sup>nd</sup> MBBS students about health care associated infections, how infection occurs , ways to prevent such infections and to provide knowledge about the impact of Hospital associated Infections (HAIs) and the roles of various stakeholders involved in infection prevention and control. The course also covers best practices recommended by latest guidelines. As the course also covers ways of handling biomedical waste and methods of disinfecting hospital environment, the students will be better equipped with enough knowledge and skills needed for the maintenance of a safe hospital environment and health care delivery practices, as it is the need of the hour.

**Course Objectives**

1. The program in Health Care Associated Infections (HAIs) is organized to provide adequate Knowledge about health care associated infections & its impact.
2. Apply appropriate steps to break the chain of infection and reduce health care associated infections
3. Use correct infection prevention and control measures including standard and transmission-based precautions
4. To provide knowledge in control of HAIs in different settings in the hospital treatment and diagnostic areas
5. To provide adequate knowledge to identify an outbreak

**Course Outcomes.** At the successful completion of the course the student will have knowledge about

1. Common organisms causing HCAIs, its sources, various routes of transmission.
2. Device associated infections & measures to prevent it.
3. Safe needle handling and PEP( post exposure prophylaxis)
4. Use of Personal protective equipment and standard biosafety precautions.
5. Biomedical waste segregation & its management.

6. Management of blood spill with practical demonstration using simulated conditions.
7. The importance of hand hygiene in prevention of hospital acquired infection.
8. Environmental cleaning, disinfection of high risk areas.

**Course timing: Two hrs every working Saturday**

**Duration of Course:** Total 16 hrs

**Eligibility Criteria for admission:** 2<sup>nd</sup> (MBBS) students

**Admission / Selection Process-** First 20 students applied for the course / If more than 20 applications are received for the course then students will be selected based on their first MBBS marks in university examination

**Intake Capacity:** 20 Students

**Course Co-ordinator for value added course:** Dr Shraddha Naik [Assistant Professor]

**Course Co-coordinator for HAI:** Dr Anupama Wyawahare [Professor]

**Facilitators:** All teaching faculty of Microbiology Department, infection control nurse (ICN)/ Incharge CSSD

**Requirements:** Additional remuneration (Minimum Rs 500/ Lecture) for conducting classes to the teaching faculty & Rs 200/ lecture to infection control nurse (ICN)/ Incharge CSSD

**Course Outline:**

Teaching scheme (Total periods allotted to each topic)

- Total Sixteen hrs teaching

**Theory Lectures**

Sr. No	TOPICS	No. of Periods allotted
1	Introduction to Health care associated infections, (HCAI), factors affecting HCAs & its impact.	1
2	Common organisms causing HCAs, sources and modes of its transmission	1
3	Standard Universal Precautions & Transmission Based Precautions & PPE.	1
4	CSSD: Monitoring & Validation of Sterilization Activities	1
5	BMW Management and spill management	1

6	Hand Hygiene Guidelines	1
7	High risk areas & Device associated infections.	1
8	Identification of Outbreak Of Hospital Acquired Infection	1
9	Prevention and control of HCAs Part 1 : Needle Handling Policy, Safe Injection And Infusion Practices, Needle Prick Injury/ Body Fluid Exposure- Protocol	1
10	Prevention and control of HCAs Part 2 : Hospital infection control program.	1
11	Antibiotic policy & its importance.	1
12	Course ending exam	1

### Demonstrations/ Practical's

Sr. No	TOPICS	No. of Periods allotted
1	Sterilization procedures and its Quality control methods Disinfectants Used In Hospital & Methods for testing efficacy of disinfectants eg - In Use test	1
2	BMW – Segregation of biomedical waste & disposal methods, & spill management.	1
3	Hand Hygiene steps	1
4	CSSD Visit along with ICN	1

**Eligibility to appear in exam: 80% attendance is must**

#### Assessment:

- Theory Examination of 30 Marks will be conducted in the form of short answer questions (SAQs). Five out of six SAQs ( Maximum marks 30)
- Candidate will be declared successful if He/She will scores minimum of 50% marks in the above examination.
- For unsuccessful candidates a repeat examination will be conducted after 1 week.
- A certificate of completion will be handed to successful participants at the end of the course.