## **Elective in Department of Biochemistry**

## Hamdard Institute of Medical Sciences and Research and

## Associated HAHC Hospital, New Delhi

S.no	Name of elective	Animal Cell culture basics and its application in research and development
1.	Block	I
2.	Department/Area	Biochemistry
3.	Name of mentor/supervisor	Dr Kailash Chandra, Assistant Professor, Biochemistry, HIMSR.
4.	Co-supervisor	Ms Babita Singhal Tutor, Biochemistry, HIMSR
5.	Number of students intake	2-3
6.	Method of selection (if applicable)	Interview/ as per the policy of HIMSR
7.	Objectives	<ul> <li>Overview of cell culture laboratory, equipment, and applications</li> <li>Aseptic techniques and good cell culture practice (GCCP)</li> <li>Demonstration of different cell types, equipment used in cell culture laboratory and their application in research</li> <li>Preparation of media and sterility testing</li> <li>Hands on training in animal cell culture techniques, passaging and maintenance of cell lines</li> <li>Cryopreservation (freezing and thawing of cell lines)</li> <li>Subculturing, determination of confluency, cell counting, and viability testing</li> </ul>
8.	Expected outcomes	<ul> <li>Successfully maintain cultures of animal cells and established cell lines with good viability, minimal contamination and appropriate documentation.</li> </ul>

Ms Babita Singhal Tutor, Biochemistry, HIMSR (Co-supervisor)

m 1-2-2223

Dr Kailash Chandra, Assistant Professor, Biochemistry, HIMSR (Supervisor)

Forwarded and Recommended by

(We 2023) 9.2-2023

HOD, Biochemistry

Dr. Alpana Saxena Professor & HOD Department of Diochemistry HIMSR & Associated HAHC Hospital New Delhi-110062