



**School of Biotechnology,
Devi Ahilya Vishwavidyalaya, Indore**

Organizes
Value added certificate course
On
**“Mammalian Cell Culture Techniques-Application in
Cancer Biology”**
27th -31st October 2023

Patron



Dr. Renu Jain
Vice Chancellor, DAVV, Indore

Chairperson



Dr. Anjana Jajoo
Head, School of Biotechnology
DAVV, Indore

Co-ordinator



Dr. Hamendra Singh Parmar
Assistant Professor, School of Biotechnology
DAVV, Indore

Participants: M.Sc. Biotechnology, M.Sc. Genetic Engineering and M.Sc. Bioinformatics III semester students

Report on- Value added certificate course on “Mammalian Cell Culture Techniques-Application in Cancer Biology”

(27-31 October, 2023).

As a routine academic practice at School of Biotechnology, DAVV, Indore, to enhance practical research skills among students, a 05 days value added hands on training certificate course on” Mammalian Cell Culture Techniques-Application in Cancer Biology” during 27-31 October, 2023 was organised. The program was conceived and planned by Head of the department Dr. Anjana Jajoo and Dr. Hamendra Singh Parmar. This 05 days long training program was started with motivational words by the Head, Dr. Anjana Jajoo by emphasizing on gaining out the maximum possible from this wonderful opportunity.

During 05 days, various components of mammalian cell culture techniques were conducted including, but not limited to handling and maintenance of mammalian cell tissue culture, viability assays, cell death detection, spheroid formation, scratch and transwell migration assays, 2-D and 3-D colony formation assays, cell invasion assay, RNA isolation and real time PCR for quantitative gene expression analysis, lactate assay, transfection methodologies, side population study using Hoechst staining etc. Importantly, the whole program was completed in more than 50 hours duration in 05 days.

More than 65 students participated for this program and it was intended to transduce the complex topics and important research tools among the students in a lucid manner by using triple action based approach which was-Theory lecture- followed by Video with commentary and then practical performance by students themselves. During this program Dr. Hem Chandra Jha, Associate Professor, BSBE, IIT, Indore was also invited as a resource person for two sessions during which he also interacted with the students and discussed on various research problems and experimental strategies. Each and every session of the workshop was quite interactive and filled with informal question and answer sessions in between and scientific discussions.

This program provided an opportunity to all the students to perform various experiments, interact with their colleagues and resource persons. At the end of the program participants were provided with a certificate of participation. Participants also expressed their positive feedbacks in the form of sense of gratitude for the School, faculty members and research scholars who contributed for the successful completion of the course.

Reported By: Santoshi (Research Scholar)