### CERTIFICATE COURSE ON CARE AND HUSBANDARY PRACTICES FOR

### SMALL LABORATORY ANIMALS

**Unique features of the facility:** The state-of-the-art barrier-maintained IMTECH Centre for Animal Resources & Experimentation (iCARE) at IMTECH was established in 1988. It spreads over 30,000 sq. ft. and built in compliance with CPCSEA guidelines. The facility is registered with the CPCSEA vide approval No. 55/GO/ReRcBiBt/99/CPCSEA.

* The facility has all the essential requisites for modern Animal Facility including Individually Ventilated Cage systems (IVCs), cage change station, bedding disposal station, automatic cage & bottle washer, dedicated sterilizer etc.
* Facility maintains 15 strains of mice (inbred & transgenic), one stock each of rats, hamsters and rabbits in different rooms
* Equipped with Animal Bio-safety Level II (ABSL II) laboratory for working on infectious agents
* Dedicated service corridor for better barrier management
* The facility is under electronic surveillance with CCTV cameras and only authorized persons is allowed in the facility through biometric access
* Facility also maintains modular amenities such as Fluorescence Tomography (Small animal whole body imaging system), Laser Doppler Blood Flow Meter, Auto analysers for Haematology and Blood Biochemistry, neuro-behavioral lab, laboratories for genetic and health monitoring of laboratory animals.

**Course for whom:** 8th/ 10th/12th

**Benefits of the course:** The course will provide both theoretical and practical training in the area of Laboratory Animal Science, which will increase the employability of the candidates in biomedical research institutions, and Biopharmaceutical industries. The programme will help to provide skilled work force to the small animal facilities and Contract research Organizations (CRO’s) involved in preclinical research.

**Course Details:**

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| Duration | : | 05 weeks |
| No. of Seats | : | 05 |
| Educational Qualification | : | 8th/ 10th/12th |
| Medium of instruction | : | Hindi/English |
| Venue of the course | : | CSIR-IMTECH, Chandigarh |
| Registration Fee | : | 200/- |

**Salient Features of the Course:**

* Introduction - Definition of plants and animals, types of animals, animals without back bones (invertebrates)and those with back bones (chordates/vertebrates), animals that live in water (aquatic), land (terrestrial), wild animals and domesticated animals, laboratory bred (mice, rats, hamsters and rabbits) and non-laboratory bred animals, diurnal and nocturnal animals.
* Personal hygiene - need to use Personal Protective Equipments (PPEs), handling of detergents and other cleaning substances, zoonoses, need of safety handling and first aid.
* Animals rooms - animals chambers/cages/ventilated cages, sizes of animal chambers general dimensions mice and rat cages, stocking density, need for light, air, water and feed, animal bedding preparation and environment enrichment, maintenance of sanitation and hygiene in animal facility
* **Husbandry procedures** – Mortality and breeding records, cage and water bottles change of mice, rats, hamsters and rabbits, bedding disposal, cage/bottles cleaning/washing manually/automatic washer system, preparation of cages and water bottles and bedding for sterilization, feeding and watering of animals, frequency of feeding, frequency of cleaning
* Autoclave operations
* **Disposal of Bio-medical waste:** Handling, collection, segregation and transport of biomedical waste
* Handling of animals - precautions while handling animals, common injuries and ailments in animals, Breeding of laboratory animals, weaning
* Record keeping as per CPCSEA guidelines
* Emergency situations: escaping animals - use of fire extinguishers.

**Important Dates:**

Last date of registration: 15th of every month

Intimation to selected candidates: 20th of every month

**Selection Procedure:** Course will commence on 1st of each month, candidates will be selected on first come first serve basis and remaining candidates will be called in the subsequent month.

**NOTE:** Registration fee includes course material. The accommodation on sharing basis may be provided as per availability.

**For further information, please contact:**

**Head, iCARE**

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