

**Rajiv Gandhi Institute of Veterinary Education and Research**  
**Kurumbapet, Puducherry – 605 009**

1. **Title of the programme:** Post Graduate Diploma in Abdominal Ultrasound for Small Animals
2. **Type of the course:** PG Diploma
3. **Department:** Veterinary Clinical Complex
4. **Duration of the course:** One year
5. **Start dates:** (Month/Year) September of every Academic Year
6. Details of Faculty associated with the course (Maximum two only)

|                    | <b>Principal Faculty</b> | <b>Co-Principal Faculty</b>       |
|--------------------|--------------------------|-----------------------------------|
| <b>Name</b>        | Dr. K. Rajkumar          | Dr. N. Deva Devi                  |
| <b>Designation</b> | Professor and Head       | Assistant Professor (on Contract) |
| <b>Contact No.</b> | 9894671682               | 9080987235                        |
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7. **About the course, scope and objectives:**

Small animal diagnostic ultrasound has become a basic diagnostic imaging procedure nowadays and is increasingly performed and demanded in daily veterinary clinical practice. It provides us with very relevant and sometimes conclusive information to reach a diagnosis in veterinary clinical practice. Ultrasound scanning is a universal, non-invasive, real-time technique providing very accurate diagnostic information. Veterinary Ultrasound examinations are gaining great importance in everyday practice and it is increasingly common among veterinary medicine professionals to include them in their diagnostic protocols. Ultrasound scans provide the veterinary professional with moving images of the structures being studied, as well as information on the condition of the different tissues. It also allows samples to be taken and uses contrast to refine diagnosis. With this intensive training participant will acquire new skills and techniques for the correct handling of the ultrasound scanner, and participant will learn to interpret diagnostic imaging from professionals with years of experience in this sector. In this course, the fundamental techniques and principles of abdominal ultrasound applied to dogs, cats and other small animals will be thought. The participant will acquire the necessary knowledge to perform detailed and accurate ultrasound scans of the various organs, identify internal structures and organs, and diagnose specific diseases and pathologies. This program is designed in the field of veterinary ultrasound and is based on the latest advances in technology and methodology. Participants will learn how to use state-of-the-art ultrasound equipment and how to interpret the images obtained to obtain accurate diagnoses. In addition, participant will explore different clinical applications of ultrasound, including the study of abdominal organs, evaluation of the urinary system, detection of masses and tumors, and much more.

8. **Topics to be covered:**

- Physical principles of diagnostic ultrasound
- Artifacts in diagnostic ultrasound

- Abdominal ultrasound scanning techniques
- Ultrasound examination of abdominal fluid, lymph nodes, masses, peritoneal cavity and great vessel
- Ultrasound examination of
  - Liver
  - Spleen
  - Pancreas
  - Urinary tract
  - Adrenal glands
  - Gastrointestinal tract
  - Reproductive tract

**9. Outcome**

- Interpret ultrasound image
- Acquire and improve skills on imaging technique
- Incorporate knowledge into clinical practice

10. **Target Groups (participants):** Practicing Veterinarians, Clinical faculty

11. **Fee:** Rs. 40,000/- per annum