CSIR Integrated Skill India Initiative

Certificate Courses on Real time RT-PCR

Code – IICB-RTPCR

As the Coronavirus that causes the COVID-19 disease is spreading across the world, CSIR-IICB is offering its support and expertise to help healthcare workers to use Real Time Reverse Transcription Polymerase Chain Reaction (real time RT-PCR),one of the most accurate laboratory methods for detecting, tracking and studying the COVID-19 Coronavirus.

Educational Qualifications : UG or PG (in any branch of Science/Technology/Pharma
(Pursuing/ Completed degree)

Venue Of the course : CSIR-IICB, Jadavpur Campus and Salt Lake Campus
Age group : 18 and above
Course Fee : Rs. 5,000/-
Duration : 01 week(15th Sept -19th Sept 2025)

Training Curriculum :

- Technical overview on Real Time PCR
- RNA isolation and cDNA synthesis
- Primer Designing
- Gene expression studies
- Data Analysis and Troubleshooting

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Day 1 Schedule (Theory by Online mode)

- RNA extraction and RNA handling (1 Hr)
- Biosafety measures required to handle the samples (1 Hr)
- Principles of PCR analysis and Real-Time PCR technique and its implication in diagnosis and testing (1 hr)

Day 2 Schedule (Theory by Online mode)

- Realtime PCR technique including machine handling and data analysis (1 Hr)
- Reverse transcription and multiplex RT-qPCR (1 Hr)

Day 3 Schedule

Practical-I: RNA extraction and Measurement (Either Salt Lake or Jadavpur Camp

Day 4 Schedule

Practical-II (RT-PCR) (Either Salt Lake or Jadavpur Campus)

Day 5 Schedule

Evaluation (11 am –until completion)

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Salient Features of the courses:

- Theory and practical sessions are per the course curriculum
- Hand-out information on teaching modules
- Hands on training through several practical classes in laboratories
- Exposure to all relevant instruments
- Continuous assessment through theoretical assignments & practical examinations for evaluation
- A certificate will be issued to the successful candidates
- **Se**ats Available : 10 (Shortlisting will be based on first come-first serve policy and eligibility criteria of the course)
- Due to limited availability of seats, early registration through online application is recommended .
- Candidates can apply for multiple courses. In such cases, shortlisting will be based on fulfilment of eligibility conditions, availability of seat and number of single choice applicants for the course
- Admission process is completely online including the payment of fees.
- Once a candidate is shortlisted for a particular course, any request for change of course will not be accepted .
- Candidates cannot take admission simultaneously in two different courses
- Theoretical sessions through webinar
- Two practical sessions at any campus of CSIR-IICB