

## 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.

<b>Educational Qualifications</b>	: UG or PG
	(in any branch of Science/Technology/Pharmacy)
	(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(23 <sup>rd</sup> June 2025-27 <sup>th</sup> June 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 Campus)

## **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
- □ Seats 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