



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/Pharmaceuticals) (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(7th Aug to 11th Aug 2023)

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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RT-PCR Course on Virus Detection

Day 1 Schedule (Online Mode)

- > Biosafety measures required to handle the samples
by **Dr. Subhajit Biswas** (11:00- 12:00 hrs)
- > RNA extraction and RNA handling by **Dr. Upasana Ray** (14:00 - 15:00 hrs)
 - Reverse transcription and multiplex RT-qPCR
by **Dr. Siddik Sarkar** (15:30 - 16:30 hrs)

Day 2 Schedule (Online Mode)

- > Real time PCR technique including machine handling and data analysis (Part-1)
by **Dr. Suvendra Nath Bhattacharyya** (11:00- 12:00 hrs)
- > Real time PCR technique including machine handling and data analysis
by **Dr. Debabrata Biswas** (14:00- 15:00 hrs)

Day 3 Schedule

- > PRACTICAL-I: • RNA EXTRACTION AND MEASUREMENT (11:00 - 15:00 hrs) (Jadavpur or Salt Lake campus of CSIR-IICB)

Day 4 Schedule

- > PRACTICAL-II: • cDNA PREPARATION, qPCR set up, acquisition and analysis (11:00 - 16:00 hrs) (Jadavpur or Salt Lake campus of CSIR-IICB)

Day 5 Schedule

- > EVALUATION- DAYS5 (11:00 - until completed)





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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 both campuses of CSIR-IICB
- Provision of PPE kit to the candidate for attending practical sessions.
- Only those candidates will be considered eligible for the course who have received at least single dose of COVID vaccination approved by Govt. of INDIA**

