

Reflective Teaching with Information Communication Technology (RTICT)

Location: Mumbai

Centre: Centre for Education Innovation and Action Research (CEIAR)

Intake: 5000 seats.

Eligibility

- I. Secondary and senior secondary school teachers with an under-graduate and teaching degree (i.e. TGT or PGT)
- II. Middle school subject teachers with a graduate and teaching degree (TGT or DEd/BEIED with BA/ BSc)
- III. Student-teachers with a graduate degree.
- IV. Graduates employed as teachers in the public or private teaching sphere in both formal and informal sectors.

NOTE: The core criteria for enrolment would be to necessarily have completed one's graduation and having access to learners to be able to implement teaching strategies using ICT.

Description

RTICT or Reflective Teaching with Information Communication Technology is an initiative to develop a community of practitioners to connect with each other through pedagogic and policy discussions rooted in their professional experience. The programme is designed such that practitioners are given a chance to be reflective and to include the latest tools and technology in their teaching.

The need of the hour as per the latest UGC, NCERT and UNESCO Sustainable Development Goals guidelines is the need for the teacher to act as a facilitator of learning in a student-centered classroom that encourages collaboration, uses ICT tools, develops creativity and communication skills and creates a safe space for learning from mistakes. These form the core of the 21st century skills that every child needs to acquire to be a successful, productive citizen of the world.

The Postgraduate Certificate (PGC) in Reflective Teaching in ICT (RTICT) is designed as a programme of teacher professional development for in-service teachers that aims to enhance the practice of elementary (upper primary) and secondary school teachers, with a special focus on the use of ICT in improving the quality of education and pedagogy. The programme has been specifically designed in conjunction with the Centre's work in and

development of interactive ICT-enabled student learning modules that aim to strengthen the quality of secondary schools, particularly government schools, and use Indian languages through the Connected Learning Initiative (CLIX). The research and field action undertaken by the Centre in collaboration with MIT, Cambridge, MA; the Homi Bhabha Centre for Science Education (TIFR), Mumbai; Eklavya, Madhya Pradesh; and other organisations, with support from the Tata Trusts, has provided experience in and understanding of the strategic uses of ICT to support the spread of quality education and teachers' pedagogy.

The change in the mindset of a teacher to shift from the passive lecture-based classrooms to active and interactive learning spaces cannot be wrought overnight. It is with this thought that the vision of a long-term systemic intervention in the form of inter-related courses to enable deep, sustained engagement with the philosophy that drives the education system was conceptualised.

The PG-RTICT Courses are hosted on TISSx. It is an Open edX based MOOC platform that is easy to navigate and allows the learners to see their progress instantly. This also has an Android-based TISSx App to allow for mobile based learning.

In the PG-RTICT Certification Programme teachers engage in online courses on TISSx, implement ICT-based learning activities in their schools and reflect on their practice. Binding all of this there is a Community of Practice forum through discussions on TISSx that enable teachers to connect and stay connected to each other and to experts as fellow practitioners.

The PGC in RTICT aims to strengthen teacher practice by:

- Developing professional communities of practice
- Supporting the (re)formation of practice through opportunities to use pedagogies with contextual, authentic practices for teachers
- Enabling teachers to reflect on their practice and develop as autonomous professionals
- Developing critical perspectives on and skills to use ICT in the classroom and for teachers own development.

The programme takes to heart the need for instruction in regional languages and currently relevant courses are being offered in both English and Hindi.

The fundamental aspect of the programme is practice-based reflection. The entire programme focuses on enabling teachers to source, use, adapt and adopt ICT-based activities to encourage active learning and develop Pedagogical Content Knowledge. In this programme, In this programme, teachers engage actively in communities of practice to collaboratively generate knowledge of teaching and in turn enable students to become knowledge prosumers and thus consume and produce knowledge. This technology-enabled learning pedagogy is implemented by the teachers and documented and shared within the community and beyond.

Distribution of Credit Hours

There are five primary types of offerings under the RTICT Programme:

PG-RTICT Programme Certification (20 Credits)

Compulsory Course 4 credits each 12 weeks duration each
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C-01: ICT and Education

OR

C-03: ICT and Education for Teachers and Teacher Educators

Any ONE Subject Pedagogy Course 4 Credits 12 Weeks duration
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S-01: Communicative English Language Teaching

S-02: Reflective Mathematics Teaching

S-03: Interactive Science Teaching

S-04: Pedagogy of Social Sciences

S-05: Teaching Modern Indian Languages

Any FOUR Electives 02 credits each 06 weeks duration each
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E-01: Values Development in Adolescent

E-02: Using Media in the Classroom

E-03: Hands-on Learning through Toy-making

E-04: Designing Learning Experiences for the English Classroom

E-05: Assessment for Learning in Mathematics Education

E-06: Teaching Literature: Strategies for Short Stories

E-07: Lesson Study based Professional Development for Mathematics Teachers

E-08: Mentoring for Teacher Professional Development

E-09: The ICT Lab in School

E-10: The School Science Lab

E-11: The Nature of Science and Science Education

E-12: Evaluation in ELT

E-13: Teaching Mathematics and Science using Dynamic Mathematics Software

E-14: Inclusive Education

Culminating Compulsory Course 4 credits 12 weeks

C-04: Action Research / Digital Portfolio

NOTE: Learners take up an action research project or choose to build their own digital portfolio of teaching-learning activities and materials. This course is intense and each learner has a mentor from TISS to guide him/her through the process.

PG-RTICT Subject Specialisation with ICT and Research Certification (12 credits)

Compulsory Course | 4 credits each | 12 weeks duration each

C-01: ICT and Education

OR

C-03: ICT and Education for Teachers and Teacher Educators

Any ONE Subject Pedagogy Course | 4 Credits | 12 Weeks duration

S-01: Communicative English Language Teaching

S-02: Reflective Mathematics Teaching

S-03: Interactive Science Teaching

S-04: Pedagogy of Social Sciences

S-05: Teaching Modern Indian Languages

Culminating Compulsory Course | 4 credits | 12 weeks

C-04: Action Research / Digital Portfolio

PG-RTICT Subject Specialisation with ICT Certification (08 credits)

Compulsory Course | 4 credits each | 12 weeks duration each

C-01: ICT and Education

OR

C-03: ICT and Education for Teachers and Teacher Educators

Any ONE Subject Pedagogy Course | 4 Credits | 12 Weeks duration

S-01: Communicative English Language Teaching

S-02: Reflective Mathematics Teaching

S-03: Interactive Science Teaching

S-04: Pedagogy of Social Sciences

S-05: Teaching Modern Indian Languages

PG-RTICT Modular Course Certification

Select courses from the PG-RTICT Programme certification will be announced periodically and learners can enrol in these courses for stand-alone certification worth the credits of the course/s.

Learners can choose to slowly build their portfolio to work towards the RTICT programme certification within a three year period from completing the first course.

Learners of PGC-RTICT Programme Certification can also choose to enrol in additional courses and get modular certificates for the add-on courses.

PG-RTICT Cohort Model

PG-RTICT is also offered to cohorts in a blended learning mode which has a face-to-face workshop component for select courses. So far, the PG-RTICT Cohort Model has been offered in four states: Chhattisgarh, Mizoram, Rajasthan and Telangana in partnership with the state administration.

Requirements

- I. Learners must be practising teachers with access to middle and secondary school students and learning labs to try out and implement ICT resources for student learning.
- II. If employed in an institution, the school management must have provided a no-objection certificate to the teacher participating in the programme.
- III. Teachers must have access to at least ONE of the following (preferably both) computing devices with internet connectivity for the entire duration of the course/programme:
 - A. A smart phone with internet to participate in the programme an online communities of practice.
 - B. A computer with internet access to access the course and complete and upload assignments.

Examination

Assessment will be periodic and consist of the following:

- Machine Graded Assignments
 - Multiple Choice Questions, Checkboxes, Drag and Drop and such.
- Peer Graded Assignments
 - Open Response Assessment will be qualitative and marks will be awarded as per a rubric by fellow learners. (Not used in all courses).
- Staff Graded Assignments
 - The uploaded assignment will be graded by the course team.

All marks will be visible on the progress page.

The overall certification will follow the TISS 10 point grading scale.

The certificate with a grade card will be made available per course online.

For the programme certification, a physical certificate with marksheet for each course will be issued.

Admission Procedure

The admission process for the RTICT online modular courses will be completed on www.tissx.tiss.edu.

The candidate will have to register himself/herself on the TISSx platform and share the information asked for online. The details asked for are as mandated by the UGC Guidelines for Online and Distance Education (June 2018) and TISS rules. There will also be an honour code that the candidate has to read and accept. This honour code reiterates acceptable and unacceptable practices and expectations from and of the candidate and is keeping with the best MOOC practices and the TISS regulations.

Once the details are submitted, the candidate will receive a verification mail on his/her email ID provided. Clicking on the link given in the email confirms the learner's registration.

To be admitted into a course under the RTICT programme, the candidate will have to first select the course. The candidate will then be directed to the TISS Payment Gateway. Once the online transaction is completed, the candidate will receive an e-mail confirming his/her admission in the course/programme. This process can take up to 04 working days since the bank transaction would need to be verified.

Fees

The fees for the online modular RTICT courses are ₹900/- per credit. This amounts to ₹1800/- for a two credit course of 06 weeks duration and ₹3600/- for a four credit course of 12 weeks duration.

Since the courses are online and in the distance mode, the course fees only include the following:

- Admission to the course selected and paid for.
- Online Certification (that can be downloaded and printed by the learner) on successful completion of the course.
- Institutional charges, including registration on and continued access to TISSx.

Please note: The fees do NOT include the following:

- TISS Identity Card
- TISS Email ID
- Access to TISS Online Library (available only through TISS ID).

Contact

For enquiries about all other certification types under the RTICT Programme please contact sawankumar.somwanshi@tiss.edu

Welcome to TISS!

Together with teachers, we hope to begin writing a new chapter in the development of education in India.