SCIENCE TECHNOLOGY AND INNOVATION POLICY

Aim & Objectives:

The course will provide a forum for discussion on development of public policy to promote Science, Technology and Innovation.

Background: Science, technology, and the stream of innovations emerging incessantly from these two enterprises influence lives everywhere profoundly, and their impact is only growing. Governments, the academia, and public institutions are acutely aware of this, especially in the developing world. However, often, they find themselves only reacting and adjusting to the disruptions emanating from far away. Yet, these institutions have the power and autonomy to formulate policies and take action on their own. Governments can also evolve and administer policies that encourage and nurture innovations locally, and ensure that all innovations — local or otherwise — are harnessed to provide solutions to local problems and develop the regional economy, improving lives and livelihood. In this broad context, the proposed Course aims to impart training to participants on how science and technology policies are important and are evolved, and what the role of the government and public institutions is and should be in the "science, technology, and innovation ecosystem". The course will dwell on how S&T policies are formulated when government and the society look increasingly towards experts to do more for the society than conduct research and produce knowledge. Such expectations include protecting society from misuse or unintended consequences of science and technology. This training program will impart necessary knowledge to participants so that they can contribute to decision making related to S&T issues in public, private, and civic settings.

The course will include lectures, popular talks, group activities, roundtables, panel discussions, field visits and cultural immersion programs. The following themes will be covered during this course.

- Research policy, funding, and prioritization
- Open Science policies, strategies, and practices
- Role of government in promoting, financing, and directing R&D in science and technology
- Science-Policy Interface and Science Advice Mechanisms (SAMs)
- Data for Policy; Research Assessment and Evaluation
- Deep tech innovations, science entrepreneurship and startup ecosystem
- STEM education and critical human capital
- Industry 5.0 and future of workforce
- Intellectual Property Rights (IPR) and techno-economics
- Digital transformations, global public goods, and technology competitiveness
- Science diplomacy, international cooperation and partnerships
- Global technology value chain and governance.
- **Sectoral focus**: Health, Energy, Agriculture, Climate, Water, and Space.

Last Date for submission of Application: as per ITEC procedures

Eligibility Criteria:

1. Participants must belong to one of the ITEC countries.
2. Participants should have a Bachelor's degree (from a recognized University) in any branch of Science and Engineering.
3. Participants should be senior scientists and technologists, science and technology policy makers, senior administrators, and Heads of National Academies.
4. A Statement of Purpose must be provided.
5. S/he must be in the age group of 30-59 Years or as per the rule of ITEC.

Those interested to participate in this special training program are requested to get in touch with the Indian missions in their respective countries for joining letter and visa.