



KARNATAKA STATE COUNCIL FOR SCIENCE & TECHNOLOGY

Indian Institute of Science campus, Bengaluru

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Karnataka State Council for Science and Technology (KSCST) was established in the year 1975. It is one of the first State S&T Councils to be setup in the country. KSCST is an autonomous S&T organization under Department of Science & Technology, Government of Karnataka. The Department of Science and Technology, Government of India has recognised KSCST as a model Council in the country.

Since four decades, KSCST has been pro-actively engaging itself to identify, propose and implement S&T based solutions to locale specific needs/ problems in the broad areas of Water, Education, Energy, Ecology and Environment, Waste management and Infrastructure. In consultation with the Indian Institute of Science and several other premier R&D institutions, KSCST executes many projects and programmes aimed at improving socio-economic conditions of the people in the state.

Over the years, a number of technologies have been translated, from research and demonstration phase, to the implementation and operational phase. KSCST provides support to the Central and State Governments, in formulation of S&T based policies, scientific surveys, project implementation, evaluation, co-ordination & monitoring, organization of scientific meets and awareness campaigns.

Vision

Application of Science & Technology for the management of resources, improvement of environment, quality of life and socio-economic conditions of the people of Karnataka.

Mission

Co-ordinate R&D activities for generation of knowledge for scientifically based interventions, development and popularization of appropriate technologies for adaptation by the civil society to overcome local-specific problems and to inspire and improve human resources of the S&T sector in the state.

Major Programmes

Academic and Industry Interaction Cell (AIIC)

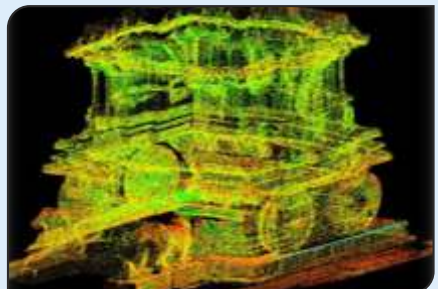
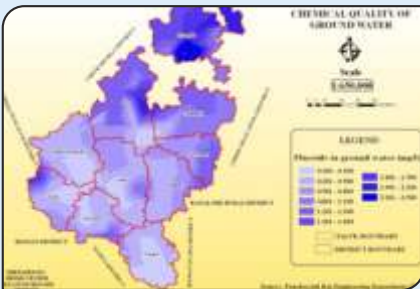
- a) Student Project Programme - Support to engineering and science students for nurturing innovation and development of new technology.
- b) E-Learning Centers - Establishment of virtual laboratory in government high schools of backward talukas in Karnataka to improve access to advanced educational resources of contents, lab experiments in the form of digital contents and 3D animations using latest IT gadgets.
- c) Teachers Enrichment Programme - Nurturing government higher primary school teachers in improving and development of skills in the field of Science and Mathematics.





Geospatial Technologies

- National Resources Data Management System (NRDMS) - A Repository of Geospatial database to support local level development and planning.
- Karnataka State Spatial Data Infrastructure (KSSDI) - Karnataka Geoportal is a web portal to find and access spatial information, metadata and associated geographic services / applications via the internet.
- Village Information System - Mapping of villages using high resolution spatial data for asset management.
- 3D Laser scanning of heritage monuments.



Water

- a) Rainwater Harvesting - Awareness and technical support for implementation of rooftop Rainwater Harvesting
- b) Traditional Water Harvesting - Assessing the status of kalyanis and measures for rejuvenation in Karnataka using Geospatial Technologies.



Energy cell - Bioenergy and renewable energy : Demonstration, dissemination of new technologies, workshops, training and awareness on energy conservation.



Energy Efficient Building Technologies: Research, development and dissemination of alternative building technologies in association with Center for Sustainable Technologies, Indian Institute of Science.

Patent Information Center:

Support to patent filling, patent search and awareness.



Major events

- State Awards for Scientists and Engineers – Support State Government to recognize and reward eminence in S&T.
- National Science Day, National Mathematics Day and Vijnana Darshana – Expose, encourage, strengthen scientific temper amongst school children.



New Initiatives

- Commercialization of Student Projects
- Smart Cities/Villages
- Centre of Excellence - Cyber Security
- National Data Registry
- Development of digital contents for high school syllabus
- Geospatial technologies for state action plan.
- Mapping of State Archeological monuments.



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