The objective of this national conference is to bring together the researcher under one roof to discuss and share the latest developments in the field of nanotechnology, fuel cells and advanced research areas. the key note address was delivered by Dr. M. Sakunthala, Regional Joint Director of Collegiate Education, Dharmapuri region, Dharmapuri and CTACS"19 Souvenir was also released by her along with Guest speaker and convenor. The session-I was headed by Dr. M. Shankar, Professor and Head, Catalysis Division Yogi Vemana University, Kadapa, Hyderabad and he gave a lecture on "Core cell structured semi conductor photo catalyst for enhanced hydrogen production. After tea break, the session-II was headed by Dr. Raman Vedarajan, Scientist, IITM-Research Park, CFCI-ARCI, Taramani, Chennai and he gave a lecture on "Recent trends in fuel cell electro catalysis". After lunch break, the session-III was headed by Dr. Muthulakshmi Andal, Assistant Professor, Department of chemistry, PSGR, Krishnammal College for Women, Peelamedu, Coimbatore-641004 and she gave a lecture on "Bioaccumulation and noxious effects of engineered Nano particles". Our Principal Dr. A. Pethalakshmi, presided over the valedictory function and she selected the best poster and oral presentation.