SUBJECT NO-ET60004, SUBJECT NAME- INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION
LTP- 3-1-0,CRD- 4

SYLLABUS :-

Course description and Target audience :The role of ICT in education is increasing phenomenally. With knowledge explosion andincreasing rate of obsolescence of knowledge, it becomes necessary to extend the reachof education to many more. Building brick and mortar infrastructure is not the solution.The only path is to use ICT in education to extend reach and improve quality. The Govt ofIndia recognizes this and has already sanctioned Rs. 10,000 crores for National MissionProject on Education through ICT (NMEICT) during the XI th plan period. IIT Kharagpuris a major partner in this endeavour. In addition, the Ministry of Finance, Govt of India hasalready taken a major initiative to train 5 crore young people of India during the next 5yrsin various vocational skills through their National Skill Development Programme using ICT.In the near future there will be need for thousands of people trained in the field of ICT ineducation.The course aims to create a holistic understanding of the different types of communicationtechnologies used to increase the effectiveness and outreach of education and training.It is suitable for UG / PG students and Research Scholars who could use the potentialof ICT â based learning in both training situations in the industry, as well as face-to-faceand distance learning situations. It would be of great to anyone who may wish to pursuedistance education and e-learning as a professional interest in the future.Course content :Introduction, Use of ICT in different countries and cultures. issues of basic multimediadesign, use of teleconferencing in education, theory and hands-on module includinguse of LMS, VOD and video production techniques. The course also deals with differentmodels of distance education and their implications, Elearning design, delivery andmanagement issues including design of LMS, LCMS and SCORM.No pre-requisites necessaryText books :1.2.Elearning and the Science of Instruction â RC Clark and RE Mayer; Pfeiffer -WileyICT 4 D (Information and Communication Technology for Development) -General Editor Tim Unwin; Cambridge University PressCourse structureIntroduction- What is ICTICT policiesImplication and Challenges of ICT on Higher EducationA framework for ICT in Education â Pedagoy and TechnologyNeed for ICT in futureBasics of Instructional Design in EducationADDIE model and its usesDomains of LearningInstructional Objectives and Specification MatrixCollaborative LearningTypes of ICTELearning and Electronic Self Learning Material (ESLM)Learning Management SystemsSCORMBlended LearningMoodleEDUSATVideo On Demand (VOD)Game-based LearningVirtual LearningBasics of Multimedia Design,Hands-on module on :Video production techniques.LMSStreaming technologyVideo conferencing