**ST/CS/HND/19/011**

**4G TECHNOLOGY**

**Abstract**

*Third generation (3G) mobile networks faces a new rival; so called 4G. An astonishingly new network may be even more profitable. The goal of 4G is to replace the current proliferation of core cellular networks, with a single worldwide cellular core network based on standard IP for control and media. In the Asian Union, the debate on 4G mobile has spawned the vision of a system that enables an “Always Best Connected” mode of communication for the citizen of forthcoming information society. This integrated 4G mobile system provides wireless users an affordable broadband mobile access solution for several applications. This paper describes some of the key opportunities that will be made available by 4G networks, present key challenges, and some proposed solutions. However, this paper emphasizes on the technology involved in making 4G a success. Finally the seminar paper conclude with the futuristic views for this emerging technology.*