ABSTRACT FOR BITCOIN MINING GAMES.

Bitcoin is a new digital currency that is based on distributed computation to maintain a consistent ownership of coins. The main difficulty that bitcoin tries to address is to achieve agreement in a distributed system run by selfish participants. To solve this bitcoin relies on proof –of-work scheme. Since the participants in this proof-of-work scheme want to maximize their own utility, they may have reasons to diverge from prescribed protocol. The project will address some of the game-theoretic issues that arise from bitcoin protocol

Prerequisites: Mathematical and algorithmic maturity.

A fundamental of the game theory is useful, but essential.