Abstract:
A strong digraph $D$ is Eulerian if $d_D^+(v) = d_D^-(v)$ for any vertex $v \in V(D)$. The digraph is super-Eulerian if $D$ has a spanning Eulerian subdigraph. In this talk, we introduce the concept of a symmetric core of a digraph $D$ with some properties and define the symmetric connected digraphs where every symmetric connected digraphs are super-Eulerian. In addition, we introduce the concept of maximum matching of a digraph $D$ and define the $M$-augmenting path with an observation of a digraph $D$ if $|V(D)| \geq 2k + 3$ when $\alpha'(D) = 2k$.

To attend virtually, please send a request to Dr. Ela Celikbas or Dr. Krzysztof Ciesielski.