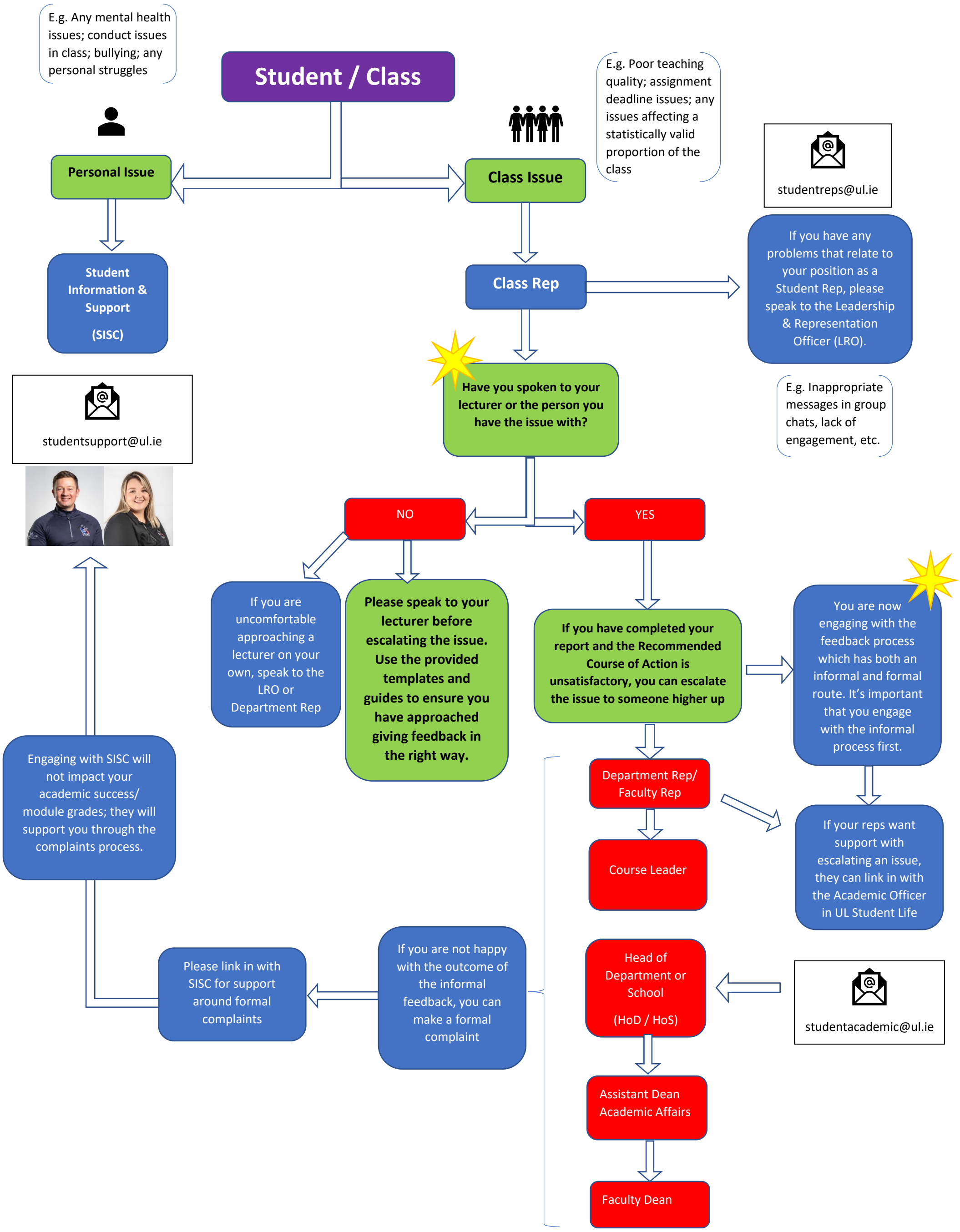Representation and UL Structure