## ABSTRACT

The following plants were investigated for their major chemical constituents.

Chapter 1 deals with the Chemical Investigations of Symplocus racemosa, Roxb. belonging to family Styraceae. Extractives of the bark of this plant yielded the triterpene acids, acetyl oleanolic, oleanolic, betulinic and ellagic acids.

Chapter 2 deals with the Chemical Investigations of Acronychia pedunculata (Syn. laurifolia) belonging to the family Rutaceae. Extractives of the leaves and timber yielded the furanoquinoline alkaloids kokusaginine and evolitrine respectively.

Chapter 3 deals with the Chemical Investigations of the Rutaceous Murraya paniculata, Linn Jack. Extractives of leaves yielded a previously unknown flavone 4'-hydroxy 3,3',5,5',6,7-hexamethoxy flavone and two other flavones, namely 3',4',5,5',7,8-hexamethoxy flavone and 3,3',4',5,5',7,8-heptamethoxy flavone.

Chapter 4 deals with the Chemical Investigations of Micromelum ceylanicum, SWINGLE belonging to the Rutaceae. Extractives of the leaves yielded 7-(4'(4''-methyl-5''-oxo-2'',5''-dihydro-2''-furyl) - 3' methyl - 2' butenyloxy) coumarin, β-sitosterol and lupeol.