## **List of Schemes**

		Page No.
Scheme 1.1	Schematic representation of polymerization of PVC	6
Scheme 1.2	Schematic representation of the mechanism involves in chemical modification of PVC	14
Scheme 1.3	Schematic representation of possible reaction site in PVC	15
Scheme 1.4	Schematic representation of various type of nanofiller with nanoscale dimension	17
Scheme 1.5	Schematic representation of different states dispersion of organoclay in polymers	24
Scheme 2.1	Schematic representation of chemical modification of PVC	48
Scheme 2.2	A photograph shows reaction setup of chemical modification of PVC with different nucleophiles and their film preparation technique. (a) Reaction setup; (b) Functionalized PVC; (c) Film preparation of functionalized PVC	49
Scheme 2.3	A photograph of LDH reaction setup in Laboratory; (a) Starting phase of experimental setup of LDH; (b) after continuous stirring for overnight; (c) before the centrifugation of LDH	51
Scheme 2.4	Schematic flow chart representation of functionalization of PVC and their different weight percentage polymer composites with LDH	52