Dedication

To our Mothers and fathers

To our family and my tribe

To our teachers

To our colleagues and my colleagues

To burn candles that illuminate for others

He taught me to each of the characters

But above all to my prophet MOHAMED

Acknowledgment

First J would like to thank without end to our greater ALLAH, then J would like to express about my appreciation and thanks to our supervisor and thanks for everyone help me.



Abstract

We study Nevanlinna Hardy - orliez classes with their characterization

We determined Fatou's lemma for Bounded functions and behavior of functions of Bounded type with their canonical factorization . We class , fy inner and outer functions and their uniqueness and on disk and halfplane we show the toilets operators and the factorization of the non-negative operators valued and pseudomeromorphic functions. We give the Fejer-Riesz theorem , the vatianal and entire function of exponential type with operators extension of krein's theorem with class . operator extension of theorem is Considered

	Contents	Page No
Dedication		.i
Acknowledgment		.ii
Abstract		.iii
The Contents	Chanter One	.iv
	Chapter One Nevanlinna and Hardy classis of vectors	
Section (1.1)	Nevanlinna Hardy_orliez	1
	classes and their	
	characterization	
Section(1.2)	Hardy classes and Fatou's lemma	9
	Chapter Two Bounded functions and Hardy	
	classes	
Section(2.1)	Boundary Behavior of bounded	14
	functions	
Section(2.2)	Hardy classes on the disk and half plane	21
	Chapter Three Operator Valued Inner and	
	Outer Functions	
Section(3.1)	Inner and outer functions with	24
	Beur ling -lax theorem and	21
	canonical factorization	
	functions	
Section(3.2)	Uniqueness of inner –Outer	31
	factorization and outer	
	functions on the disk and half	
	plane Chapter Four	
	Factorization of Nonnegative	
	Operator Valued functions	
Section(4.1)	Toilets operators with	39
	operators valued and Pseudomeromorphic	
	Functions Analyticity	
Section(4.2)	Fejér-Riesz Operator and	50
	Rational Functions with Entire	50
	Functions of Exponential Type	
Reference		59