

**Fabrication and Studies on Thin Film Composites of Poly
(Ethylene Oxide)**



By

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**NATIONAL CENTRE OF EXCELLENCE IN PHYSICAL CHEMISTRY
UNIVERSITY OF PESHAWAR, PESHAWAR, PAKISTAN**

JUNE, 2013

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Sabiha Sultana

*A dissertation submitted in partial fulfillment of the requirement for the
degree of
Doctor of Philosophy
in
Physical Chemistry*

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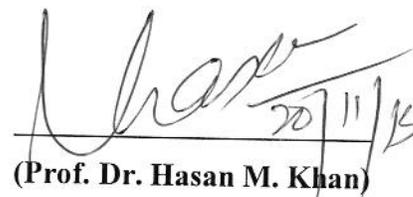
**NATIONAL CENTRE OF EXCELLENCE IN PHYSICAL CHEMISTRY
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It is recommended that the dissertation prepared by Miss Sabiha Sultana entitled "Fabrication and Studies on Thin Film Composites of Poly (Ethylene Oxide)" be accepted as fulfilling this part of the requirement for the degree of **Doctor of Philosophy in Physical Chemistry**.

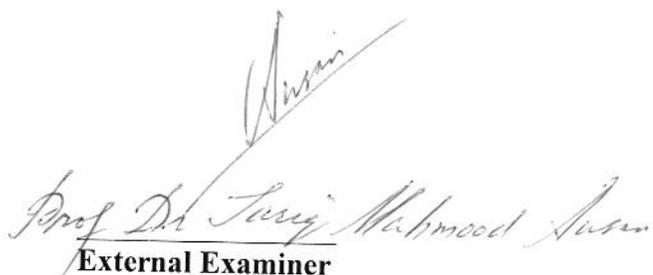


(Prof. Dr. Mohammad Saleem Khan)
Research Supervisor



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**EXAMINATION SATISFACTORY
COMMITTEE ON FINAL EXAMINATION**



External Examiner

Internal Examiner

Dedications

Dedicated To

My Beloved Father,

My Dearest Brothers

&

*In loving memory of my Mother and Grandmother who
left us too soon.*

*There is no love, like a mother's love,
no stronger bond on earth...
like the precious bond that comes from God,
to a mother, when she gives birth.*

*A mother's love is forever strong,
never changing for all time...
and when her children need her most,
a mother's love will shine.*

*When her days on earth are over,
a mother's love lives on...
through many generations,
with God's blessings on each one.*

(Jill Lemming)

*Fabrication and
Studies on Thin Film
Composites of Poly
(Ethylene Oxide)*

Acknowledgements

“Oh Allah! Open our eye to see what is beautiful, our mind to know what is true, our heart to love what is good”

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