

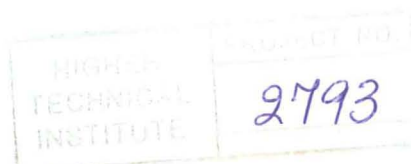
**HIGHER TECHNICAL INSTITUTE
COURSE IN COMPUTER STUDIES**

DIPLOMA PROJECT

**SOFTWARE PACKAGE FOR
PREMATURE BIRTHS
CS/199**

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1. CHAPTER 1: INITIAL INVESTIGATION PHASE

1.1 ACTIVITY 1: INITIAL INVESTIGATION

1.1.1 Introduction

The Neonatal Intensive Care Unit (N.I.C.U) was established in 1985. It constitutes center of reference for intensive care of neonates for all Cyprus, including private and public hospitals.

Every year around 500-600 premature newborn babies with different problems are nursed in the N.I.C.U. The main objective of the Unit is to provide the best patient service that will lead in the best results.

The last years, survival has improved significantly and has reached the 95% of the total admissions. Important improvement in the survival was remarked in the very low birth weight premature neonates, this means in the neonates with birth weight under the 1500gr with percentage of survival 81%. Remarkable, for the year 1996 was the 100% survival of the premature neonates with birth weight 1000-1500gr.

Concerning the performance of the N.I.C.U in Cyprus, the universal statistics state that for every population of 500000, for every 10000 births the existence of one Neonatal Intensive Care Unit is justified in the geographical region that in analogy there are the most births.

In Cyprus, we have about 10000 births yearly and the most take place in Nicosia.

The specialization of the unit's staff consists not only in the good knowledge of the disease of the neonate, but also in the good procedure of the treatment of the baby and the good experience in the use of equipment for the monitoring of the babies.

The N.I.C.U approximately provides T.P.N to 120 neonates. In addition, it nurses neonates with cardiological and surgically problems, problems of perinatal asphyxia, aspiration problems, jaundice, infections, congenital malformation and others.

The Cyprus system of perinatal care of the neonates follows, the universal standards that's why the N.I.C.U is a centre of reference for the care of all the neonates of Cyprus that need intensive care. A system exists for the delivery of these neonates from the private or from the provincial hospitals to the unit.

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