

Project Objective

Improvement of health care of patients affected by chronic diseases through the implementation of new diagnostic nuclear medicine techniques in cardiology, oncology and other areas of medicine.

Logical Framework Matrix (LFM) for MAK2010001

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	Design Element	Indicator	Means of Verification	Assumptions
Outcome	<ul style="list-style-type: none"> Improved diagnostic work-up in the management of patient especially affected by cardiovascular diseases and cancer 	<ul style="list-style-type: none"> Increased number of diagnostic nuclear medicine procedures in the country (Nuclear cardiology and oncology)/year 	<ul style="list-style-type: none"> Records from the Nuclear Medicine Department 	<ul style="list-style-type: none"> Necessary funds are made available by the University; The University and the hospital continue to support implementation of nuclear medicine
Output	<ul style="list-style-type: none"> 1 A new Nuclear Medicine Department established at the University of Stip, Eastern part of the country 	<ul style="list-style-type: none"> New facility established 	<ul style="list-style-type: none"> Report from the University 	<ul style="list-style-type: none"> The University and the hospital continue to support implementation of nuclear medicine practice
	<ul style="list-style-type: none"> 2 Nuclear Medicine practice established in accordance with Quality Management Practices 	<ul style="list-style-type: none"> Quality system in place 	<ul style="list-style-type: none"> Records from the Audit's mission 	<ul style="list-style-type: none"> Recommendations from audit missions are implemented
	<ul style="list-style-type: none"> 3 Introduction of preparation, production and labelling of homemade radiopharmaceuticals 	<ul style="list-style-type: none"> Standard Operation Procedures (SOPs) introduced and applied 	<ul style="list-style-type: none"> Report from the University; Quality Manual of the Radiopharmacy Unit/NM Department 	<ul style="list-style-type: none"> SOPs effectively applied
Activity	<ul style="list-style-type: none"> 1.1 Establishing the infrastructure to run nuclear medicine diagnostic procedures in the University's new Nuclear Medicine Department 	<ul style="list-style-type: none"> Equipment in place and operational 	<ul style="list-style-type: none"> Official reports from the University 	<ul style="list-style-type: none"> Funds are made available by the University
	<ul style="list-style-type: none"> 1.2 Training provided to necessary staff 	<ul style="list-style-type: none"> Fellowships completed as scheduled; # of staff trained 	<ul style="list-style-type: none"> Reports from the Fellows 	<ul style="list-style-type: none"> Trainees are retained at the work place
	<ul style="list-style-type: none"> 1.3 Procurement of necessary equipment 	<ul style="list-style-type: none"> Equipment procured on schedule and operational 	<ul style="list-style-type: none"> Official procurement records 	<ul style="list-style-type: none"> Procurement requested and processed on schedule; Custom clearance smoothly completed
	<ul style="list-style-type: none"> 1.4 National workshops for different targets/audience (3 days) 	<ul style="list-style-type: none"> Workshop held; # of participants 	<ul style="list-style-type: none"> Proceedings /report of the workshop 	<ul style="list-style-type: none"> Participants are properly released from work to attend work shop
	<ul style="list-style-type: none"> 2.1 Preparation of Standard Operating Procedures and Guidelines for imaging practice 	<ul style="list-style-type: none"> Documents prepared 	<ul style="list-style-type: none"> SOPs and Guidelines 	<ul style="list-style-type: none"> SOPs and QM are effectively applied
	<ul style="list-style-type: none"> 3.1 Establishment and validation of protocols for preparation and 	<ul style="list-style-type: none"> Protocols for preparation and QA/QC established; # of staff trained 	<ul style="list-style-type: none"> Protocols; FE/SV reports 	<ul style="list-style-type: none"> SOPs and QM are effectively applied

	QA/QC of radiopharmaceuticals			
Input	<ul style="list-style-type: none"> ▪ 1 .1 .1 EM1: to Review the design and planning of the new premises 	<ul style="list-style-type: none"> ▪ Executive plan prepared 	<ul style="list-style-type: none"> ▪ Documentation (Executive plan/reports) 	<ul style="list-style-type: none"> ▪ Resources for the building are provided by the University
	<ul style="list-style-type: none"> ▪ 1 .1 .2 Renovation work (Local cost) 	<ul style="list-style-type: none"> ▪ New infrastructure prepared, dedicated only for Nuclear Medicine activities 	<ul style="list-style-type: none"> ▪ Documentation from the University 	<ul style="list-style-type: none"> ▪ Resources for the building are provided by the University
	<ul style="list-style-type: none"> ▪ 1 .2 .1 FE1: Training in Nuclear Cardiology – Physician (3 months) 	<ul style="list-style-type: none"> ▪ Fellowship implemented 	<ul style="list-style-type: none"> ▪ Fellowship report 	<ul style="list-style-type: none"> ▪ Fellows accepted by the host institute in time. The trainees retain in the workplace to apply obtained skills.
	<ul style="list-style-type: none"> ▪ 1 .2 .2 FE2: Training in Nuclear Oncology – Physician (2 months) 	<ul style="list-style-type: none"> ▪ Fellowship implemented 	<ul style="list-style-type: none"> ▪ Fellowship report 	<ul style="list-style-type: none"> ▪ Fellows accepted by the host institute in time. The trainees retain in the workplace to apply obtained skills.
	<ul style="list-style-type: none"> ▪ 1 .2 .3 FE3: Training in QA/QC and dosimetry - Physicist (1 month) 	<ul style="list-style-type: none"> ▪ Fellowship implemented 	<ul style="list-style-type: none"> ▪ Fellowship report 	<ul style="list-style-type: none"> ▪ Fellows accepted by the host institute in time. The trainees retain in the workplace to apply obtained skills.
	<ul style="list-style-type: none"> ▪ 1 .2 .4 FE4: Training technologist –(1 month) 	<ul style="list-style-type: none"> ▪ Fellowship implemented 	<ul style="list-style-type: none"> ▪ Fellowship report 	<ul style="list-style-type: none"> ▪ Fellows accepted by the host institute in time. The trainees retain in the workplace to apply obtained skills.
	<ul style="list-style-type: none"> ▪ 1 .2 .5 FE5: Training technologist –(1 month) 	<ul style="list-style-type: none"> ▪ Fellowship implemented 	<ul style="list-style-type: none"> ▪ Fellowship report 	<ul style="list-style-type: none"> ▪ Fellows accepted by the host institute in time. The trainees retain in the workplace to apply obtained skills.
	<ul style="list-style-type: none"> ▪ 1 .3 .1 Procurement of a Double-Head SPECT Gamma Camera 	<ul style="list-style-type: none"> ▪ Equipment received and operational 	<ul style="list-style-type: none"> ▪ Acceptance test report and records of the NM Department 	<ul style="list-style-type: none"> ▪ Procurement requested and processed on schedule
	<ul style="list-style-type: none"> ▪ 1 .3 .2 EM2: Acceptance test for gamma camera (1 week) 	<ul style="list-style-type: none"> ▪ Mission implemented 	<ul style="list-style-type: none"> ▪ Mission report 	<ul style="list-style-type: none"> ▪ Mission planned on schedule
	<ul style="list-style-type: none"> ▪ 1 .3 .3 Procurement of a treadmill (including ECG; defibrillator) 	<ul style="list-style-type: none"> ▪ Equipment received 	<ul style="list-style-type: none"> ▪ Report and records 	<ul style="list-style-type: none"> ▪ Procurement requested and processed on schedule
	<ul style="list-style-type: none"> ▪ 1 .3 .4 Procurement of laminar flow lead shielded hood for radiopharmaceutical preparations 	<ul style="list-style-type: none"> ▪ Equipment received 	<ul style="list-style-type: none"> ▪ Report and records 	<ul style="list-style-type: none"> ▪ Procurement requested and processed on schedule
			<ul style="list-style-type: none"> ▪ Mission report 	

<ul style="list-style-type: none"> ▪ 1 .4 .1 EM3: Expert missions to train local staff in Nuclear Cardiology and to give lectures at National Workshop 	<ul style="list-style-type: none"> ▪ Missions implemented 		<ul style="list-style-type: none"> ▪ The trainees retain in the workplace to apply obtained skills.
<ul style="list-style-type: none"> ▪ 1 .4 .2 EM4: Expert missions to train local staff in Nuclear Oncology and to give lectures at National Workshop 	<ul style="list-style-type: none"> ▪ Missions implemented 	<ul style="list-style-type: none"> ▪ Mission report 	<ul style="list-style-type: none"> ▪ The trainees retain in the workplace to apply obtained skills.
<ul style="list-style-type: none"> ▪ 2 .1 .1 Audit mission to assess Quality Management system 	<ul style="list-style-type: none"> ▪ Missions implemented 	<ul style="list-style-type: none"> ▪ Mission report 	<ul style="list-style-type: none"> ▪ The hospital is willing to apply recommendations
<ul style="list-style-type: none"> ▪ 3 .1 .1 FE6: Training on Radiopharmacy, QC – Pharmacist (1 month) 	<ul style="list-style-type: none"> ▪ Fellowship implemented 	<ul style="list-style-type: none"> ▪ Fellowship report 	<ul style="list-style-type: none"> ▪ Fellows accepted by the host institute in time. The trainees retain in the workplace to apply obtained skills.
<ul style="list-style-type: none"> ▪ 3 .1 .2 SV1: Preparation of documentation for Radiopharmacy (1 week) 	<ul style="list-style-type: none"> ▪ SV implemented 	<ul style="list-style-type: none"> ▪ SV report 	<ul style="list-style-type: none"> ▪ SV accepted by the host institute in time.

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