

Royal University of Phnom Penh





Information and Communication Technology Master Plan 2017 - 2020



Message from Dr. Mey Kalyan Chair of Board of Trustees of RUPP

In the past decade, Cambodia has seen steady economic growths at around 7% annually. Nevertheless, Cambodia still needs more development to uplift the living conditions of her people. The key toward more sustainable development is maximizing capabilities of Cambodia's youth to prepare them for a knowledge-based economy, in which research is foundation for real knowledge and for positive changes of the society.

In line with this awareness, in the 2014-2018 strategic plan, the Royal University of Phnom Penh (RUPP) stated very clearly its intention to be the flagship university of Cambodia in research, community services, learning and teaching. It outlines goals and strategies to be done in the years to come. To achieve this goal, RUPP has worked very closely with all its development partners to reform financial management and human resource management while at the same time restructuring its organisation structure to be more responsive to community and job-market needs.

It was part of this reform and restructuring process that the Board of Trustees of the university decided to establish a culture of research among the faculty members. Annual research budget was securely allocated and research capacity development have been one of the priorities.

Noticing the clear strategic plan and strong commitment to be the true flagship university of Cambodia, Swedish International Development Authority (Sida) has chosen RUPP to be a long-term development partner. Sida aims at strengthening the research capacity in RUPP to respond to both social and academics needs. However, to do research, ICT infrastructure needs to be in place. This ICT policy and master plan is result of the joint effort between Sida and RUPP to ensure that ICT infrastructure can be brought into existence in a more sustainable manner.

The Board of trustees of RUPP has been informed of the ICT policy and master plan and has approved of both the policy and plan. We are grateful that Sida is going to work closely with RUPP to realize the first set of priorities for good governance and research. As the Chair of Board of Trustees and on behalf of other Board members, I would like to endorse this policy and master plan. We will do everything possible in our capacity to make sure the plans can be materialized so that RUPP can be truly a flagship university.

I thank Sida, the Swedish embassy in Phnom Penh, and all RUPPers who work tirelessly to make this policy and master plan a reality.

Faithfully Yours,

Mey Kalyan, PhD - - - - Chair of Board of Trustees

Foreword by Dr. Chet Chealy Rector of Royal University of Phnom Penh

Technology is making great contribution to improve life and society. Recently, the MIT technology review listed ten breakthrough technologies of 2017. These include reversing paralysis, self-driving cars and trucks, paying with your face, practical quantum computers, the 360-degree selfie, hot solar cells, gene therapy 2.0, the cell atlas, botnets of things, and reinforcement learning. All these breakthroughs hold great promises for the society.

At RUPP, we recognize the significances of technology, particularly information communications technology or ICT. We intend to integrate ICT in all our functions and services. ICT makes it possible to store, retrieve, transmit, receive, and manage information to the mass in a timely manner. It is such a system that RUPP is going to adopt to make research, teaching, learning, and student services responsive and reliable. It starts with RUPP having its own ICT policy and master plan.

The ICT policy and master plan emphasizes on facilitating the following services: connectivity and common network services; learning and research; university management and administration; governance, management, control, and maintenance of ICT resources. To realize these possibilities, the ICT policy and master plan also outlines a careful change management and monitoring and evaluation plans.

I am thankful to the government of Sweden, which, through their development authority, Sida, and the Swedish embassy in Cambodia, work closely with RUPP to realize the university vision, i.e., **"to become Cambodia's flagship university in teaching, research, and community services"**.

I also thank all staff, teachers, and students at RUPP who contributed to the development of this policy. We are going to work together to implement the ICT policy and master plan so that RUPP could be a truly "Cambodia's flagship university".

ระร Yours Sincere * Chet Chealy, PhD Rector

Foreword by Mr. Magnus Saemundsson Sida's Representative

The new ICT Policy and Master Plan is a great step forward in making RUPP a flagship university of Cambodia. Modern and up to date ICT infrastructure is a prerequisite for conducting modern university teaching and learning. Without access to databases and international science journals scientific research cannot be conducted in line with international standards.

Sida and the Swedish Embassy in Cambodia welcome warmly this important step that we believe will be able to fundamentally strengthen RUPP as a high quality comprehensive university.

Yours Sincerely,

Mynns Serm

Magnus Saemundsson First Secretary, Education and Research Swedish Embassy, Cambodia

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Executive Summary

RUPP's ICT Policy and Master Plan (2017-2020), here after "policy and plan", aims at integrating ICT into all aspects of university life for students, staff, and faculty members. Specifically, the policy and plan will make it possible for ICT to facilitate the following areas for effectiveness and efficiency: (1) teaching, learning, and research; (2) academic administration and management; (3) library administration and management; (4) finance administration and management; (5) human resource administration and management.

Funded by Sida but driven by all at RUPP from support staff to top management, this policy and plan will guide the implementation of the infrastructure, databases, information systems, and corresponding processes and procedures in order to support the functional and policy level aspiration of the Royal University of Phnom Penh.

The policy has the following key policy statements. RUPP shall:

- i. Implement an ICT governance environment that ensures that all stakeholders have a say at the appropriate level in determining the functionality, specification, and service levels of all ICT services and systems
- ii. Establish/sustain a specialised ICT Support Unit responsible for the management, control and maintenance of ICT systems and services to ensure the availability to users at the agreed service levels
- iii. Ensure that ICT services and systems are sustainable by:
 - a) Allocating sufficient financial resources, combined with an ICT Fee chargeable to every student, to cover, as a minimum, the recurrent costs of all ICT services and systems and also provide for growth and continuing modernisation;
 - b) Ensuring that the ICT Support Unit is staffed with a sufficient range of human resource and skills combined with remuneration that recognises the reality that RUPP has to compete with the private for the kind of technical human resource that is able to ensure availability of ICT services and systems at the required service levels.
 - c) Using acquisition policies (for example local development wherever possible as opposed to buying proprietary systems; university-wide open source policies; etc.) that minimise recurrent costs while also building local capacity;

To materialize all components of the policy and plan, a budget around five million US dollars is needed. Sida will fund the first few key components to kick start the process. These prioritized areas include: (1) improving and expanding the campus data backbone, (2) improving and setting up LAN in buildings, (3) strengthening of ITC in terms of personnel, capacity, and equipment, (4) strengthening the Network Operation Center and the Data Center, (5) intranet / internet (including E-mail and access to intranet and internet services as well as automation, (6) academic management IS, (7) library management IS, (8) human resource management IS, (9) finance management IS, (10) executive management IS, and finally trainings to all concerned end users. (see table 1 on page 7 of the master plan). RUPP will need to fundraise the rest of the money from all stakeholders and development partners to realize the remaining plans.

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Abbreviations

Term	Description
AWG	Architecture Working Group
CAMREN	Cambodian Research and Education Network
DNS	Domain Name System
DRC	Disaster Recovery Centre
DSL	Digital Subscriber Line
ІСТ	Information and Communications Technology
ICT/MP	ICT Policy and Master Plan
ІТС	Information Technology Centre (of the Royal University of Phnom Penh)
ITU	International Telecommunications Union
IP	Internet Protocol
IPR	Intellectual Property Rights
IRM	Information Resource Management
ISP	Internet Service Provider
Kbps	Kilobits per second
LAN	Local Area Networks
LCMS	Learning Content Management System
NOC	Network Operations Centre
NREN	National Research and Education Network
Mbps	Megabits per second
МСМ	Management, Control, and Maintenance
MDA	Ministries, Departments and Agencies
MEF	Ministry of Economy and Finance
MoEYS	Ministry of Education, Youth and Sports
OPAC	Online Public Access Catalogue
РоР	Point of Presence
RUPP	Royal University of Phnom Penh
Sida	Swedish International Development Cooperation Agency

1. Introduction

This Master Plan was developed based on the founding and guiding document – Royal University of Phnom Penh ICT Policy. The full integration of ICT in any organisation must first and foremost be driven by organisational priorities, focusing on those elements that are closest to the mission and vision of the organisation. A lot of other considerations however also come in. These include:

- i. Pre-requisites (and co-requisites): the data communication infrastructure or a minimum component thereof, for example, must be implemented before Intranet services or information systems can be rolled out. Some elements of the Academic and Human Resource management information systems must be in place, along with the infrastructure to support utilisation, before electronic identity cards are issued.
- ii. Human resource: For each service or system to be implemented, there must be competent human resource to handle management, control, and maintenance. Users must also be trained as a concurrent requirement (just in time training approach).
- iii. Implementation Funding: The funding flow must be sufficient to enable the planned speed of implementation.
- iv. Decision processes: The speed of decision making can have severe impact on implementation timelines if it is slow. This carries the additional risks of buying items at prices well above market value; and getting equipment that is no longer an industry standard. Both are the result of the rapid evolution of ICT.
- v. Maintenance and Replacement Funding: Before any service or system is implemented, there should be steps taken to ensure that there are sufficient funds to support operations and maintenance, and later replacement. Funds for expansion should also be considered at the same time.

While the implementation Master Plan has taken these considerations into account to the extent possible, all these factors need to be reviewed on an on-going basis. This Master Plan covers four years, 2017 – 2020: this can be considered as the foundational phase for the full integration of ICT in all RUPP functions. During this foundational phase, the following are expected to be achieved:

- i. All staff and continuing students will be fully ICT literate, albeit with varying levels of Internet literacy, and committed to the transformation of RUPP.
- ii. There will be a data network covering both campuses and offering "anywhere on campus" broadband access to enable campus, national and global communication.
- iii. There will be significant progress on the core corporate information systems, with a target of having the academic management and library information systems fully operational.
- iv. ITC will be fully established and staffed as a functional IRM unit.
- v. ICT recurrent costs will be mainstreamed in the university budget.

The foundational phase will provide the platform for taking RUPP to a higher level of exploiting ICT compatible with universities in technologically more developed regions.

2. Prioritised Projects and Project Management

2.1. Priorities and Project Identification

The Stakeholders' workshop agreed on the projects in Table 1that are listed according to the agreed priority. It should be noted that this is a starting point rather a comprehensive listing of all the information systems that will be implemented over time. The Master Plan, like the Policy, should be continually reviewed to take into account the evolving environment, corporate priorities, and userneeds. It should also be noted that the prioritisation does not mean that the projects are done in sequence: Priority 2, for example, will start just a step behind the start of Priority 1 so that major phases of both are concurrent.

ltem	Project Description	Agreed Priority Rating
1	Improving and Expanding the Campus data backbone	1
2	Improving and Setting up Local Area Networks in Buildings	1
3	Strengthening of ITC (personnel, capacity, and equipment)	1
4	Strengthening the Network Operations Centre and the Data Centre (along with possible relocation)	1
5	Intranet/ Internet (Includes Email and Access to Intranet and Internet services as well as Automation)	2
6	Academic Management IS	3
7	Library Management IS	3
8	Human Resource Management IS	4
9	Finance Management IS	4
10	Executive Management IS	4
11	Training End-Users	Underlying throughout

Table 1: Prioritised Projects

The following specific projects emerge from the prioritisation:

- i. Data Network Project: Improving and Expanding the Campus data backbone and LANs, including Wi-Fi;
- ii. ITC Project: Strengthening ITC in terms of having a sufficient range of expert personnel, requisite skills, and equipment/ facilities;
- iii. Network Operations Center/Data Center Project: Improving and Expanding the NOC and Data Center, along with possible relocation;
- iv. Intranet/Internet and Automation Project: Includes Email and Access to Intranet and Internet services as well as Automation. Automation refers to the provision of sufficient

computer resources as detailed in the policy to students and staff to ensure a fully online environment and sufficiency of access.

- v. Corporate Management Information Systems Project with five major sub-projects, each of which will be implemented by a different team but with a very high level of collaboration and coordination among the teams:
 - a. Academic
 - b. Finance
 - c. Library
 - d. Human Resource
 - e. Executive Management
- vi. End User Training Project

2.2. Key Project Elements in each Project

2.2.1. Data Network Project

This has got several elements as listed below:

- i. A technical audit to confirm that the current network design along with any associated routing is consistent with a well-engineered data communication network.
- ii. Based on the audit, design and dimension modifications and/or additions to the campus backbone (including building LANs) that are consistent with sufficiency of capacity for projected needs and utilisation over the next 15 20 years, including active devices scaled for sufficiency over a 5-year minimum life-time. This would include phasing the implementation according to university priorities and resource envelope. It would also involve acquisition of sufficient public IP addresses to address the foreseeable needs of the university.
- iii. Assess bandwidth requirements and agree strategies and a growth path for improved bandwidth, along with delivery of connectivity to the end-user that includes Wi-Fi, Internet kiosks, computer labs, or a scheme for owned laptops/tablets.

2.2.2. ITC Project

The gaps in the range and skills of staff as well as facilities within the ITC have to be assessed as a basis for interventions that will include:

- i. A review of the organisational structure and terms of service;
- ii. Recruitment to fill key gaps initially, and to gradually have a full staff complement by the end of 2020;
- iii. Capacity building based on "just in time" approaches through exposure to best practices in the management, control, and maintenance of university ICT resources based on

attachments and secondments, and longer duration training where justified. It should be noted that for the manager level staff in ITC, this should include executive skills development.

- iv. Provision of equipment and tools to enable their day to day work;
- v. Provision of a working environment (furniture and facilities) compatible with the need to stay long hours on duty.

2.2.3. NOC /Data Centre Project

Establishment of the NOC and Data Centre requires first for an assessment of the switching requirements, data storage capacity and 24x7 availability requirements, as well as Network Operations Centre (NOC) requirements to provide all-inclusive services that include:

- i. Network operations management;
- ii. Systems' applications and databases;
- iii. General data storage needs for RUPP and its units as well as students and staff;
- iv. Intranet as well as Internet access;
- v. Security of the network and the systems.

ITC has its main switching centre and NOC in space allocated in two large rooms in Building 1. While these are sufficient for now, the location is far from ideal in terms of access and protection from direct heat. The locations also make the provision of physical security very hard. The first consideration is therefore a purpose-designed location in one of the new buildings coming up; or a better location in an existing building.

The NOC will require network and Data Centre monitoring and control stations, along with display screens that enable visual monitoring of the status of all links, switching centres.

As part of this project, RUPP will need to simultaneously develop a Disaster Recovery Centre in a different location that is geographically separate but easily accessible. Consideration can be given to the Institute of Technology of Cambodia as a possible location, working on a reciprocal basis.

2.2.4. Intranet/ Internet and Automation Project

This project is focused on ensuring access to all services (according to access levels) by staff and students and will include

- i. Access to the Intranet and the Internet;
- Automation: this ensures "Last inch" access, to ensure that each member of staff and each student has sufficient access to a computer to enable their day to day activities through the provision of dedicated computers, or shared computers in computer labs (See Error! Reference source not found.)
- iii. Email services

- iv. Access to internal applications and resources (information systems and services that include library services, e-learning, etc.) along with the associated corporate databases
- v. Access to applications (with identified priority software with a sufficient number of user licenses)
- vi. Other services to be identified during the Policy and Master Plan exercise.

2.2.5. Management Information Systems

Implementation of information systems will be guided by policy, systems analysis and reengineering, and requirements statements led by the technical people in each area (student records, human resource, finance, and library). It should be noted that effective systems re-engineering also leads to organisational changes, and that change management as detailed in the Change Management Policy (Chapter **Error! Reference source not found.**) will be a major element in implementing information systems. A key consideration in procurement will be the need to exchange information by operating from corporate databases that are able to exchange information at the back-end.

The implementation of Information Systems will follow the following three phases.

The first phase:

- a) Creating awareness and getting involvement and ownership of functional staff and other stakeholders;
- b) Systems analysis and business process redesign, including approval by university management of consequential policy and structural changes;
- c) Functional specifications;
- d) Decision on make or buy;
- e) If Make, following direct award of contract to an internal team. Award of contract in this context means that even an internal team must be subject to contractual requirements that include conforming to the functional requirements, deliverables, and timelines.
- f) If Buy, Request for Proposals; evaluation of bids; contract negotiations; and award of contract.

The major deliverables of this stage are: the final decision about the specific software package (internally developed or procured from outside); service levels, and contract terms.

The second phase:

- a) Procurement of the hardware facilities;
- b) Development OR procurement of application software and other resources; and
- c) Implementation of the information system.

The main deliverables of this stage is an operational information system along with complete, documentation and trained personnel.

The third phase (transitioning):

- a) Even after commissioning, major applications are prone to inconsistencies and glitches that need to be fully identified through live operations under full load. Business continuity demands may require that the associated risks be addressed by running both the old manual system and the computerised system in parallel for some time.
- b) While every effort must be made to have data in electronic form before the electronic information systems are brought on line, it is a reality that data migration will take a considerable amount of time (and may run for several years) because of the resource demands it imposes. This means, for example, that a current final year student will go through their graduation based on the manual system while a new first year student will have all their data captured in electronic form and will be administered through the computerised system throughout their stay.

2.2.6. End User Training

The End-User Training Project Team will address the following core activities:

- i. Carry out a comprehensive assessment of the training needs of students and staff in order to develop suitable curricula for addressing the needs of both general and specialised users;
- ii. Identify and develop the capacity of a sufficient number of trainers from among the current university staff or senior students;
- iii. Develop training content mainly based on an online self-led learning approaches, but with provision of initial direct training for those who lack basic computer skills (especially first year students and some of the continuing staff);
- iv. Work with the Automation sub-project to ensure that all trainees will get sufficient access to computers through general computers;
- v. Conduct training to achieve the policy objectives.

2.3. Project Management

Each of these projects, and each major sub-project, will be assigned to a Team that has the functional knowledge and technical capacity to plan and implement the project, including tactical and strategic changes in the implementation plan based on a sound framework for monitoring and evaluation. This will make ten (10) Project Teams. For avoidance of doubt, each team will be led by a person trained in the major functions of unit and is also empowered to take key administrative decisions: as an example, the Library Management Information System should be led by the Librarian. Each team will be composed of individuals with expertise in the area (for example Finance and Accounting) as well as end-users.

Each Team shall be required to prepare for approval a detailed implementation plan and detailed budget, along with a clear identification of assumptions/ risks and how these will be dealt with.

This multiplicity of teams working towards a common end will call for close coordination at different levels:

- i. RUPP ICT Committee: It will be required that all Teams report to this Committee at a formal meeting once a month or, in the worst case, once every two months during the project phase.
- ii. Consultation with the Architecture Working Group (when in place) for assurance that all plans conform to the agreed information architecture.
- iii. Inter-Committee consultations as often as needed to ensure that pre-requisites and corequisites are always in place in time for successful implementation.

The RUP ICT Committee will appoint an overall **Project Coordinator** with both the ability and experience to lead and manage this major project. This person should ideally be one of the members of staff of RUPP who will be able give this assignment full time during the project phase. The Project Coordinator should also be positioned to have easy reach to all officers of the university.

3. Planning Timeline

Table 2 below gives the indicative planning time line. This timeline will need to be adjusted periodically based on a realistic internal assessment that takes into account:

- i. The sufficiency and range of skills to carry out implantation, especially the applications development for the major information systems;
- ii. Availability of funding, both for implementation as well as recurrent funding for sustainability;
- iii. The speed with which decisions can be taken, especially relating to major changes as these will involve consultations with government.

It is assumed that for each project, the first six months will be used for project planning and design (includes both technical design and project planning as appropriate).

Table 2: ICT Implementation Master Plan Time Line

	Project	Sub-Projects	2017	2018	2019	2020
			(Design and Planning)			
1	Data Network					
1.1		Campus backbone				
1.2		Local Area Networks				
1.3		Wi-Fi				
2	IT Center					
		Staff Capacity Building				
		Equipment and Furniture				
3	NOC and Data Center					
4	Intranet/ Internet/Automation					
4.1		Intranet				
4.2		Internet Access				
4.3		Automation				
5	Corporate MIS					
5.1		Academic				
5.2		Library				
5.3		Finance				
5.4		Human Resource				
5.5		Executive				
6						
6	End User Training					

4. Planning Budget

Table 3 shows the Planning Budget for the Foundation Phase ICT implementation. Table 4 is given to show the indicative commitment by Sida to this phase of implementation and therefore identify how much more RUPP should raise internally, or from government; or from other local and foreign development partners. The background to the figures used here is provided in a separate workbook along with explanatory notes.

	Project	AMOUNT (USD)	REMARKS
1	Data Network	900,000	All provisional: ITC to verify prices and quantities
2	IT Centre	400,000	All provisional: ITC to verify prices and quantities
3	NOC and Data Centre	900,000	All provisional: ITC to verify prices and quantities
4	Intranet/Internet / Automation	1,600,000	All provisional: ITC to verify prices and quantities
5	Management Information Systems	200,000	All provisional: ITC to verify prices and quantities
6	End User Training	100,000	All provisional: ITC to verify prices and quantities
7	ITC Staff Implementation costs	100,000	As estimated by RUPP
	Contingency sum (about 10% of items 1 - 6)	400,000	
	Total (rounded)	4,600,000	

Table 3: RUPP Foundation Phase Planning Budget

	Category	Amount (USD)	Estimated Internally or other funded (USD)	Estimated Request to Sida (USD)	Indicative Request to Sida (SEK)
1	Data Network	900,000	400,000	500,000	5,000,000
2	IT Centre	400,000	100,000	300,000	3,000,000
3	NOC and Data Centre	900,000	400,000	500,000	5,000,000
4	Intranet/ Internet/ Automation	1,600,000	1,100,000	500,000	5,000,000
5	Corporate MIS	200,000	50,000	150,000	1,000,000
6	End User Training	100,000	50,000	50,000	1,000,000
7	ITC Staff Implementation Costs	100,000	100,000	-	-
	Contingency Sum of about 10% of items 1 - 6	400,000	400,000		
	Total (Rounded)	4,600,000	2,600,000	2,000,000	20,000,000

Table 4: Indicative Sources of Funding for the Foundational Phase

Acknowledgements

The Royal University of Phnom Penh would like to acknowledge the following who have been involved in and have contributed to the formulation of the ICT Policy and Master Plan in different ways:

Steering Committee

- 1. H.E Dr. Chet Chealy, Rector, Chairperson
- 2. Dr. Afzal Sher, SIDA Senior Advisor, Advisor
- 3. Mr. Phal Des, Vice Rector, Coordinator
- 4. Mr. Ponn Chhay, Vice Rector, Member
- 5. Dr. Sok Vanny, Vice Rector, Member
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- 16. Dr. Rath Sethik, Acting Dean of Faculty of Development Study, Member
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- 6. Mr. Chi Kuong, Head of IT Department, Member
- 7. Mr. Our Chenda, Head of Accounting Office, Member
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- 11. Mr. Heng Sokha, Acting Head of Telecommunication and Electronic Department, Member
- 12. Mr. Thann Meng Leap, Acting Head of Personnel Office, Member
- 13. Mr. Chhiem Kan, Deputy Head of Library, Member
- 14. Dr. Khim Chamroeun, Staff of IT Center, Member
- 15. Mr. Meng Hann, Staff of IT Center, Member

Funding for the Process

- 1. Swedish International Development Agency (SIDA)
- 2. Higher Education Quality and Capacity Improvement Project (HEQCIP)

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