

Master Plan for Information and Communication Technology in Education (2012-2021)

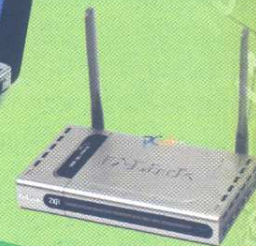
July 2013



Ministry of Education
Government of the People's Republic of Bangladesh

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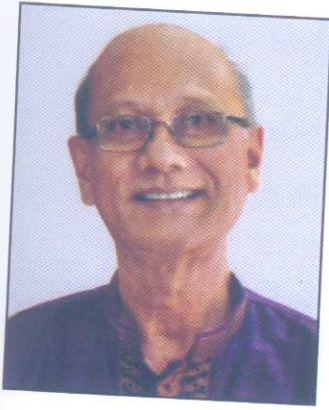
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Nurul Islam Nahid M.P
Minister


Ministry of Education
Government of the People's Republic of Bangladesh

Message

The year 2021 marks the golden jubilee of the independence of Bangladesh. Keeping that in mind, the government has placed the Vision 2021 which envisages a prosperous Bangladesh. But to achieve Vision 2021 targets within the time limit, it largely depends on building an ICT based Digital Bangladesh. Since ICT is a powerful tool for socio-economic development, the Ministry of Education is playing a significant role along with other Ministries and Departments with a view to building this digital Bangladesh. Thus Information Communication Technology is being used to a great extent to reach multifarious services, including transparency and accountability in administration of education sector, to the doorstep of people in order to a well educated and enlightened nation. ICT has been identified as a key enabler to address the quality component of education equation. There has been an attractive e-learning environment in educational institutions; moreover by using the advantage of information technology now we have online results of public examinations and communicating through SMS, re-scrutiny, filling up forms, registration, admission tests in colleges and universities, correspondence among offices under the Ministry, e-books and others. The learners have now an easy access to this new kind of facilities. It has resulted in accelerating work speed as well as augmenting accountability and transparency and reducing corruption. The multi-media classroom has been introduced in 23,000 Schools and Madrasahs. I hope its expansion will be ensured in all spheres in future.

A program named ICT in Education Master Plan was undertaken in cooperation with UNESCO, Dhaka Office to implement ICT use in education sector in a coordinated way from primary to higher education. The different levels officials of A21 programme of Prime Minister's Office, Ministry of Education, Ministry of Primary and Mass Education and concerned offices and organizations have been working actively to make this master plan a success.

While seeking cooperation from all concerned with this master plan in applying ICT use in education sector and introducing it, I extend my heartiest thanks to them.


05.08.2013
(Nurul Islam Nahid M.P)



Secretary
Ministry of Education
Government of the People's Republic of Bangladesh

Message

The Ministry of Education with the assistance of UNESCO, Dhaka Office has initiated a program named 'ICT in Education Master Plan' which aims at developing a quality education system based on information technology in connection with attaining objectives of 'Vision 2021' by that time as envisaged by the present government in connection with observing 50th anniversary of the independence of Bangladesh in the year 2021. On this the Ministry of Primary and Mass Education and A2I Programme of Prime Minister's Office and other different organizations, directorates have been acting very close in providing essential cooperation.

The main objective of this Master Plan is to ensure education for all, to improve standard of education, to produce a skilled workforce, to reduce discrimination in education standard in urban and rural areas through the use of ICT and suitably conducting information technology in education as well.

The ICT education is already made compulsory in secondary education. Besides, the Ministry of Education is also providing online services for education related issues and implementing its actions of imparting broad use of ICT in classroom teaching. As a result, it has brought about significant changes in the field of education.

My sincere thanks goes to everyone, in UNSECO, Dhaka Office, concerned Ministry, Departments, Directorates and organizations, who got involved in initiating this ICT in Education Master Plan and I seek their concerted efforts in attaining aims and objectives of this Master Plan.

(Dr. Kamal Abdul Naser Chowdhury)



Officer-in-Charge
UNESCO
Dhaka Office

Foreword

The National Education Policy 2010 has envisioned a knowledge-based society through quality Education for All. The Government of Bangladesh has also formulated *National Information and Communication Technology (ICT) Policy – 2009* with **Vision 2021** to build up a Digital Bangladesh. While *National ICT Policy – 2009* focuses more on technological development and broadening impact of ICT in national economy, it also identifies that the use of ICT in education can accelerate the goal to achieve quality education. It is imperative that the use of ICT at all forms as well as levels of education also helps develop human capital, both by providing ICT skills and education in diverse areas of learning.

The Government of Bangladesh has finally prepared the comprehensive Master Plan for ICT in Education – 2012 for 2012-2021 through a consultative process. UNESCO feels proud of being a part of the preparation process of the ICT Master Plan in education and is also happy to provide necessary support to the Ministry of Education in this regard.

It is expected that this ICT Master Plan in education will help reduce the ‘digital divide’ that may lead to any inequality in access and use of information and technologies in the educational and socio-economic activities in the country. We also hope that ‘appropriate’ technologies will be selected and used to maximize the effectiveness in respective contexts, rather than always seeking ‘advanced’ technologies when they may prove to be not the most suitable ones to the local situation.

I would like to express our gratitude to Mr. Nurul Islam Nahid, Honorable Minister, Ministry of Education and Dr. Kamal Abdul Naser Chowdhury, Secretary, Ministry of Education for their sincere efforts and guidance in preparing the ICT Master Plan in education.

I am also pleased to express sincere appreciation to all the members of different committees who have contributed greatly in preparing this ICT Master Plan in Education.

In conclusion, I hope that the ICT Master Plan in education would urge the authorities concerned to review the progress at regular intervals. And taking that perspective into active consideration, they would renew as well as try to fulfill their collective commitments to accelerate the pace of the effective management of the Master Plan for ensuring quality education in Bangladesh.

Kiichi Oyasu
Officer-in-Charge
UNESCO Dhaka

Master Plan for Information and Communication Technology in Education (2012-2021)

1. Preamble

Diversified opportunities of information and communication technology, which are recognized as the driving forces behind development are now being exploited in various sectors. Many countries of the world are reaping the benefits of information and communication technology to improve the standards of education. ICT is already in place in Bangladesh with a view to improve the standard of education.

Substantial importance has been attached to ICT in education in the National Education Policy 2010. A significant part of the National Policy for Information and Communication Technology 2009 is devoted to the use of ICT in educational management as well as to measures required for the extension and upgrading of ICT education. The Ministry of Education, The Ministry of Primary and Mass Education and Directorates concerned are actively engaged to perform the necessary tasks in this regard. However, the use of ICT in the improvement of academic standards, delivery of educational services and facilitation in the participation in education sector still suffers from limitations. A developing country like Bangladesh is in need of the effective and inexpensive use of ICT. This is expected to minimize the digital divide and to ensure the participation of all.

A workshop was organized in 2009 by the Ministry of Education with assistance from UNESCO to explore the prospects of the enhancement of the capacity to prepare a plan for use of ICT in education. The deliberations made in the Workshop underlined the need of the efforts of coordinated use of ICT in various fields. The Workshop further recommended in favour of preparing a national Master Plan for ICT in education.

On the basis of this recommendation, a National Planning Committee was constituted to prepare the Master Plan for ICT in Education with the Education Minister as its Chair. The first meeting of the Committee, presided over by Nurul Islam Nahid, MP, the Hon'ble Minister of Education, proposed that 4 Working Committees be formed for this purpose. The meeting resolved that the National Master Plan for the use of ICT in education be prepared in consultation with the Working Committees and officials of the directorates/departments representing the Education Ministry.

Within their respective scope, 4 Working Committees held discussions with the stakeholders and accordingly prepared 'The Master Plan for the Use of Information and Communication Technology in Education (2012-2021)'. This Master Plan, so prepared, was submitted to the National Planning Committee for approval on March 20, 2012.

1.1 Rationale

Article 17 of the Constitution clearly spells out that—

The State shall adopt effective measures for the purpose of-

- a) establishing a uniform, mass-oriented and universal system of education and extending free and compulsory education to all children to such stage as may be determined by law;
- b) relating education to the needs of society and producing properly trained and motivated citizens to serve those needs;
- c) removing illiteracy within such time as may be determined by law.

The National Education Policy 2010 has been prepared in tune with this article of the Constitution and various national and international Conventions. Further, the Master Plan for Information and Communication Technology in Education has been developed to help achieve various aims and objectives of the Education Policy.

This Master Plan will facilitate in the comprehensive use of ICT in education. This Plan is expected to create the following opportunities.

- a. Education for All:** The Government of Bangladesh is firmly promised bound to achieve the goals of *Education for All*. Various initiatives have already been undertaken to make Bangladesh free of illiteracy by 2014 and to realize 100% enrollment of children in schools. The development of the Master Plan would create opportunities of effective and fair use of ICT in education. As a result, the achievement of various objectives of *Education for All*, in particular, ensuring access to education, enhancement of children's enrollment and prevention of drop out will be facilitated.
- b. Improvement of the Standard of Education:** Various initiatives undertaken with the use of ICT in education would comprehensively contribute to the improvement of education. ICT will be of strategic help in a good number of areas such as, the development of teaching-learning materials, development of professional skills of the teachers, making the teaching-learning programs more effective, creating dynamism in education administration, ensuring of e-services in the education sector etc.
- c. Skilled Manpower:** Building up skilled human resources is simply indispensable to face the challenges of 21st century. ICT in education will help improve technical and vocational education at various levels. This can also develop skilled manpower in ICT.
- d. Eradication of the Digital Divide/Discrimination:** Taking into account the positive outcomes of ICT, many of the educational institutions, particularly in the urban areas, have already adapted this technology. However, since such facilities are not available in most of the institutions of the country, the digital divide continues to exist. The Master Plan for ICT in Education would be instrumental in removing this 'divide'.

In view of all the above considerations, this initiative of developing the Master Plan for ICT in education has been undertaken in order to facilitate the access of educational institutions nationwide to successful use of ICT.

1.2 Structure and Policy to be followed

The vision and objectives of this Master Plan have been outlined in the spirit of the country's national vision. The work plan has been drawn with some larger objectives in view. Accordingly, the ultimate deadline of realizing them has been fixed rather than breaking it up in short, mid or long terms.

2. Ownership, Supervision and Review of the Master Plan

This Master Plan has been prepared under the leadership of the Ministry of Education, so this Ministry will have its ownership in entirety. The objectives particularly set for the Ministry of Primary and Mass Education will be taken care of by the respective Ministry.

Both the Ministries will work together to realize the Plan. The Ministries will review the progress every six month and would thereby take necessary actions. On the basis of the review, concerned ministries and departments will be accordingly intimated of the progress made.

This Master Plan will be reviewed every three years and then measures would be taken for any necessary amendment or revision. The two lead ministries would take appropriate steps. The Ministry of Information and Communication Technology would offer necessary cooperation in the monitoring and implementation of the Plan.

3. Vision

Building up of a knowledgeable, fair and just society and digital Bangladesh through the use of ICT that will have impact on efficiency in education, transparency, accountability, dynamism and will further ensure accessibility of common people across the country to educational services. This society shall create equal opportunities for all citizens to inculcate their individual resources and help them grow up as creative, responsible and productive citizens capable to face the challenges of the 21st century.

4. Objectives

The objectives of the use of ICT in Education are:

1. Developing teaching-learning environment;
2. Developing professional and ICT skills of teachers;
3. Improving standards of teaching-learning materials;
4. Building up skilled human resources as per the needs of the present times;
5. Ensuring of transparency, accountability and efficiency in educational management;
6. Creating accessibility of education services at the doorsteps of the common people;
7. Ensuring participation of persons concerned in the education sector.

5. Implementation Strategies

The strategies to be followed to implement the Master Plan:

1. *Coordination of government and non-government activities, sharing of experiences and resource*

Though the planning of the Master Plan has been basically conceived as the responsibility of the government departments, the implementation of the objectives would require the coordination of government and non-governmental activities. So the two lead ministries would coordinate such activities with the inclusion of various concerned government and non-government departments in their work plan. Measures will be taken for the sharing of experiences and resources of both government and non-government organizations.

2. *Allocation of sufficient funds in the national budget to implement the Master Plan*

In order to implement this Master Plan, there should be necessary allocation in the budget of every fiscal year. In addition to regular budgetary allocation, concerned departments would take measures for the preparation and implementation of different initiatives with the arrangement of some extra-ordinary financing.

3. *Ensuring people's participation in the implementation of every single activity*

People's participation is a must to make the use of ICT in education a success. Appropriate steps will be taken to increase people's awareness about the objectives and work plan of the Master Plan. Both the lead ministries will accordingly organize necessary steps with the coordination of government and non-government initiatives.

4. *Use of modern, sustainable and economic technology*

Modern, appropriately suited to the time of implementation, sustainable and inexpensive technology will be in place for the use of ICT in education. For the selection of inexpensive and sustainable technology, importance will be given to open source and free software.

5. *Enhancement of the skills of all concerned in each activity*

Initiatives will be taken to enhance the skills of all concerned to ensure the use of effectiveness of ICT and to make the solutions sustainable. In the case of undertaking of any probable project in line with the objectives of the Plan, the duration of the effectiveness and impact of any such project will be taken into

account and necessary steps will be in place to enhance the capacity. Relevant departments will be equipped with necessary capacity in relating to selection of technology, management and use.

6. *Prioritized undertaking of projects and their implementation*

Projects will be undertaken on the basis of priority and be implemented accordingly to realize the set activities included in the Plan. The activities noted here will be merged within the ongoing projects and in case of any new project, inclusion of such activities will be deemed as mandatory.

7. *Ensuring safe and effective use of technology*

All necessary measures will be taken to ensure safe and effective use of ICT in the educational institutions. Special measures will be taken to prevent any unexpected risks. The security and confidentiality of all who would use the technology (i.e. teachers, students, administrators etc.) will be ensured.

6. **Work Plan**

The contents of the Master Plan have been organized in the following way on the basis of the joint and coordinated recommendations of the National Planning Committee, the four working committees and sub-committees.

a. **Sub sector:** Six specific sub-sectors have been indicated to organize the plan.

These are:

1. Pre-Primary and Primary education;
2. Non-Formal education;
3. General education at the secondary level;
4. Madrash education at the secondary level;
5. Technical and Vocational education at the secondary level and
6. Higher education.

Besides, the use of ICT in educational administration (applicable to all sectors) has been determined as per the recommendations of the Working Committee for Educational Administration.

b. **Objectives:** The objectives of all sub-sectors have been attached in the work plan of the relevant sub-sector. Some of these objectives can be found in more than one sub-sector, while there are some specific ones, applicable to the individual sub-sectors.

c. **Activities:** Necessary activities to achieve each objective have been noted under the relevant column. Special projects may be undertaken to implement one or more than one of the activities outlined.

d. **Responsibilities:** One or more than one organizations have been included in the column specifying the responsibilities. These organizations will jointly undertake projects in relating to the set activities. The organization primarily responsible for implementation will act as the coordinating agency.

e. **Time limit:** Time limit has been fixed for each of the activities and implementation has to be completed accordingly. Some of the activities are already in progress and some of the activities would continue once they take off. In such cases, the time limit noted in this column would mean the starting point of the activity.

f. **Expected outcomes:** Expected outcomes have been noted against each activity. While drawing up the projects regarding the activities, appropriate and definitive indicators have to be applied to monitor and measure the expected results.

The regular progress report would contain the spelt-out objectives; activities; responsibilities; time limit and it would reflect the progress/degree of the achievements of the expected outcomes as noted in the Master Plan. These can be, of course, amended, extended or revised as the Plan comes under review from time to time.

6. A. Pre-Primary and Primary Education

Vision: Building up a knowledge-based and educated society by ensuring enrolment in and completion of quality primary education for all children eligible by their age.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
1. Provision of ICT in education, appropriate to the needs of time, for the learners at primary level	1.1 Inclusion of ICT in education at Pre-Primary level	MoPME, DPE, NCTB	2013	Learners get ideas about ICT at the Pre-Primary level.
	1.2 Inclusion of ICT in education at the Primary level	MoPME, DPE, NCTB	2013	Teachers & learners of primary schools acquire knowledge about ICT.
	1.3 Developing & updating books on ICT in every 3 years to enhance the appropriate ICT skills of the learners	MoPME, DPE, NCTB	2013	Learners acquire modern ICT skills.
	1.4 Supplying books on ICT (in easy Bangla language) in the library of each educational institution	MoPME, DPE, NCTB	2012	Teachers & learners acquire knowledge about ICT.
	1.5 Recognizing degree/diploma in ICT training as an additional qualification for appointment as a teacher in the primary school	MoPME, DPE	2012	Teachers with ICT skills would be made available. ICT teaching in the primary schools would become more effective.
2. Developing the professional skills of teachers through ICT	2.1 Inclusion of basic ICT materials (such as preparing digital contents with basic computer, multi-media, internet, presentation software) in the curriculum of teachers' training	MoPME, DPE, NAPE, NCTB	2012	ICT skills of the teachers of primary schools will improve. Teachers are enabled to use ICT materials in the classroom.
	2.2 Preparing Master Trainers of sufficient number for coordination of ICT in teaching-learning in the Pre-primary & Primary classes to provide training on the use of ICT to develop class-wise materials for teaching-learning.	MoPME, DPE, NAPE,	2013	Skilled manpower will be created to train Primary school teachers who would use ICT in teaching.
	2.3 Provision of quality in-service training for all teachers of primary schools to help them acquire basic skills in ICT; use of ICT in teaching-learning methods and developing learning materials through ICT	MoPME, DPE, NAPE, NCTB, A2I	In progress	Teaching-learning activities in the classrooms become more effective with the use of ICT.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	2.4 Introduction of distance learning program through radio, television & internet to facilitate conducting of learning programs to develop the professional skills of the Primary school teachers	MoPME, DPE, BOU, NAPE,	2013	Teachers get easy opportunities of professional skill development. Teachers become better skilled in conducting activities within the classroom.
	2.5 Developing online course contents/modules for teachers' training	MoPME, DPE, BOU, NAPE	2013	Necessary materials for online teachers' training will be made easily available.
	2.6 Organization of exams. of online courses in teachers' training; recognition & delivery of certificates	MoPME, DPE, BOU, NAPE	2013	Standards of online training can be maintained. Would help develop professional skills of teachers engaged in recognized online courses.
	2.7 Provision of interest-free loans on easy terms /grants to the teachers to help purchase computer/ laptop & ICT materials	MoPME, DPE, MoF, MoICT	In progress	Teachers feel motivated to use ICT. Use of ICT would increase among the insolvent teachers.
3. Development of teaching-learning materials with the use of ICT	3.1 Developing class-wise & subject-based interactive multimedia learning materials (including self-learning, Subsidiary materials) jointly by teachers, experts in materials development and specialists in education	MoPME, DPE, NCTB, NAPE	2013	Quality teaching-learning materials would be available. Learning would become easier for the students. Teaching methods will become modern and more effective.
	3.2 Preparing & distribution of subject- based audio and video materials for model class programs to be prepared jointly by teachers, experts in materials development and specialists in education	MoPME, BOU, DPE, NCTB, NAPE	2014	Quality teaching-learning materials would be available. Learning would become easier for the students.
	3.3 Recognition & Award of prizes for developing ICT-based quality teaching-learning materials	MoPME, DPE, NAPE	In progress	Teachers, interested persons & organizations will feel encouraged to develop teaching-learning materials.
	3.4 Inclusion of all text-books, subsidiary materials and digital contents into the national education portal	MoPME, DPE, NCTB, A2I	2012	All teachers, students & educational institutions can easily collect teaching-learning materials.
4. Creating learner-friendly environment through infrastructural development of ICT	4.1 Establishment of ultra-modern ICT labs in all Primary Teachers Training Institutes to enhance the basic ICT skills of the teachers	MoPME, MoICT, DPE	2012	Teachers better-skilled in ICT, with training from the Primary Teachers Training Institutes, would be available.
	4.2 Installation of faster internet connection at each PTI	MoPME, MoICT, DPE, BTCL	2012	Teachers are enabled to collect information through internet.
	4.3 Establishment of ICT libraries equipped with national and international books, journals and periodicals on ICT	MoPME, MoICT, DPE,	2013	Learning materials required for professional skills development would be easily available for the teachers.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	4.4 Establishment of a multi-media classroom with 1laptop, 1multi-media projector/LCD screen, internet connection at each educational institution for the use of ICT in education; Arrangement of substitute power source in case of no regular power supply	MoPME, MoICT, DPE,	2015	Teaching-learning will improve within the classrooms.
	4.5 Each classroom of all educational institutions be turned into a multi-media classroom for the use of ICT in education	MoPME, MoICT, DPE,	2018	Learners will have better access to the use of ICT.
	4.6 Establishment of ICT labs at each educational institution with adequate number of computer/laptops and internet connection for use of ICT in education	MoPME, MoICT, DPE,	2018	Learners will acquire subject-based knowledge through practical lessons.
	4.7 Formulation of policies/planning for the supply, use and maintenance of ICT materials & involvement of the Management Committees/community	MoPME, MoICT, DPE,	2012	Maintenance of ICT materials in the schools would be easier.
	4.8 Preparation of quality instructional programs for screening on the television	MoPME, MoI, BOU, DPE, NCTB	2013	Availability of Quality TV programs will be ensured; Teachers/ learners can learn from TV programs.

6. B. Non-Formal Education

Aims: Establishment of a fair, equitable and knowledge-based society that ensures education for all and that enables all citizens to enjoy equal opportunities of education to cultivate their individual capabilities. This also enables everyone to become a useful member of her/his family and community and a creative and responsible citizen to face the challenges of 21st century.

Objectives of the use of ICT: The objective of the use of ICT in Non-Formal education is to develop improved materials in this area; to improve the standards of teachers and to make quality Non-Formal education available at the doorsteps of people.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
1. Building up skilled manpower through the use of ICT in Non-Formal education	1.1 Inclusion of ICT in the NFE curriculum and development of ICT-based materials with special reference to continuing & skill development education to create opportunities of the learners to acquire required skills as per their needs	MoPME, BNFE, CAMPE	2014	Large segments of the population would be enabled to contribute to the economic activities of the country as they become skilled in ICT through NFE.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	1.2 Coordination of ICT in various skill development courses so that learners acquire efficiency in ICT along with other subjects and become profited through its use in everyday life	MoPME, BNFE	2013	Learners become skilled in ICT as they also acquire skills in other areas.
	1.3 Developing an independent trade course on ICT	MoPME, BNFE	2012	Learners become skilled in ICT.
2. Creating access of common people to NFE through the use of ICT	2.1 At the first phase, establishment of a permanent NFE Learning Centre in collaboration with UISC in each union, equipped with ICT facilities (such as 1 TV, radio, internet connection, computer/laptop and multi-media projector/LCD screen)	MoPME, BNFE, LGRD	2015	Extension of NFE will gain speed; the inhabitants of the Union will get to know new items more easily with the help of ICT materials of the NFE centre at the Union level.
	2.2 At the second phase, establishment of a permanent NFE Learning Centre in collaboration with UISC in each village, equipped with ICT facilities (such as 1 TV, radio, internet connection, computer/laptop and multi-media projector/LCD screen)	MoPME, BNFE, LGRD	2018	Extension of NFE will gain speed; the inhabitants of the villages will get to know new items more easily with the help of ICT materials of the NFE centre at the village level.
	2.3 Broadcasting of attractive programs on adult education and other NFE areas on radio and TV	MoPME, MoI, BNFE	2012	Adults will learn from radio and TV; will play a role in the development of skilled manpower.
	2.4 Broadcasting of interactive programs on adult education on radio and TV	MoPME, BNFE	2013	Spread of adult education will take place; will help in preparing effective programs.
	2.5 Organizing monitoring activities of the interactive programs at regular intervals	MoPME, BNFE	2013	Assessment of Distance Education can be done; will help in preparing effective programs.
	2.6 Orientation & motivation of prospective makers of quality programs for radio and TV on adult education and NFE	MoPME, BNFE	2012	Many may feel encouraged to produce programs on adult education and NFE; Good quality productions would be made available.
	2.7 Initiating Early Childhood Development Program (ECDP) with the help of multi-media materials prepared specially for the poor, backward, disadvantaged children and those living in the distant areas	MoPME, MoWCA, BSA, BNFE, CAMPE	2016	Child development and preparing the children for enrollment in the schools can be done through NFE.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
3. Improvement of NFE with the use of ICT	3.1 Development of subject- based interactive multi-media learning materials (including self-learning & subsidiary materials) to be prepared jointly by teachers, experts in materials development and specialists in education	MoPME, BNFE	2012	Quality ICT-based learning materials will be made available and these would help children to learn easily.
	3.2 Arrangement of training for the teachers/assistants of NFE through the use of ICT	MoPME, BNFE, CAMPE	2013	Teachers/assistants of NFE will have easier access to training.
	3.3 Recognition & Award of prizes for developing ICT-based quality teaching-learning materials for NFE	MoPME, BNFE,	2012	Persons concerned will feel encouraged to develop learning materials; such materials for NFE will become easily available.
	3.4 Inclusion of all NFE text-books & subsidiary digital contents in the national education portal	MoPME, BNFE, MoE	2012	All connected with NFE will have easy access to teaching-learning materials.

6. C Secondary and Higher Secondary Education

Aims: Improvement of the quality of education with the creation of ICT-enabled teaching-learning environment and building up the learners at the secondary and higher secondary levels as skilled human resource for the knowledge-oriented society that is responsive to the needs of the 21st century

Objectives of the use of ICT: Improvement of teaching-learning activities in the classroom with the use of ICT

Objectives	Activities	Responsibilities	Time Limit	Expected Results
1. Educating the learners at secondary & higher secondary levels in modern and appropriate ICT education	1.1 Developing and updating of the books and curriculum of these levels at every three years to make them appropriate to the updated needs in order to develop the ICT skills of these learners	MoE, DSHE, NCTB	2013	Students will acquire modern and appropriate ICT skills.
	1.2 Supply of books (both in Bangla and English) on ICT in the libraries of all educational institutions	MoE, DSHE, NCTB	2012	Teachers and students will be enabled to acquire knowledge of ICT.
	1.3 Ensuring appointment of teachers of ICT who are graduates or diploma-holders in ICT	MoE, DSHE,	2016	Supply of skilled teachers in ICT will be ensured. Classroom teaching in ICT will become more effective.
2. Development of professional skills of teachers through ICT	2.1 Inclusion of the basic elements of ICT (such as computer, multi-media, internet, presentation software, developing digital contents) in the curriculum of teachers' training	MoE, DSHE, BCC, NU	2012	ICT skills of teachers' will be developed; teachers will be enabled to use ICT in the classrooms.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	2.2 Coordination of ICT teaching-learning within the classroom at secondary & higher secondary levels and developing adequate number (at least 1000) master trainers to train persons in developing subject-based teaching-learning materials for different classes	MoE, DSHE, BCC	2013	Skilled manpower will be created for teachers training in the delivery of ICT-based lessons.
	2.3 Inclusion of all the teachers (approx.3 million) at the secondary level to develop their basic skills in ICT & use of ICT in the teaching-learning curriculum & Provision of quality pre-service and in-service training in developing learning materials with ICT	MoE, DSHE, BCC	2016	Teaching-learning program with the use of ICT in the classrooms will be more effective.
	2.4 Introduction of courses on distance education through radio, TV and internet to develop teachers' professional skills and help them conduct programs on learning	MoE, DSHE, BOU, BCC	2012	Teachers will have better opportunities to develop professional skills. They will become better skilled to manage classrooms.
	2.5 Recognition & Certification of online courses on teachers' training or any kind of learning	MoE, DSHE, TTC, BOU, NU, BCC	2013	Teachers will have better opportunities to develop professional skills.
	2.6 Developing online course contents/modules for teachers' training	MoE, DSHE, TTC, BOU, NU, BCC	2013	Necessary materials for online teachers' training will be easily made available.
	2.7 Arrangement of online examinations and awards; recognition & certification of such exams.	MoE, DSHE, TTC, BOU, NU BCC	2013	Standards of online teachers' training would be maintained; Recognized online courses would help develop the professional skills of the teachers.
	2.8 Provision of interest-free loans on easy terms /grants to the teachers to help them purchase computer/ laptop & ICT materials	MoE, MoF, MoICT, DSHE	2013	Teachers will feel motivated to use ICT. Use of computer will increase among the insolvent teachers.
3. Developing teaching-learning materials through ICT	3.1 Development of class-based & subject- based multi-media learning materials (including self-learning & subsidiary materials) to be prepared jointly by teachers, specialists in materials development and specialists in education	MoE, DSHE, NCTB, BOU, BCC	2013	Quality teaching-learning materials would be made available. Learning will become easier for the students. Teaching methods will become more modern and effective.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	3.2 Preparing & distribution of videos of subject-based models for classroom use, to be prepared by teachers, experts in teaching-learning materials and specialists in education.	MoE, DSHE, NCTB, BOU, BCC	2013	Quality teaching-learning materials would be made available. Learning will become easier for the students.
	3.3 Recognition & award of prizes for developing ICT-based quality teaching-learning materials	MoE, DSHE, BCC	2012	Teachers will feel encouraged to develop teaching-learning materials.
	3.4 Ensuring of the use and development of subsidiary education materials that can meet the needs of backward and disadvantaged learners	MoE, MoSW, DSHE, NCTB, BCC	2014	Backward and disadvantaged students will be able to learn with the help of substitute education materials.
	3.5 Preparing subsidiary education materials for physically & mentally challenged learners (such as text to speech, screen reader etc.)	MoE, MoSW, DSHE, NCTB, BCC	2014	Learning would be easier for the disabled students.
	3.6 Inclusion of all textbooks and subsidiary digital contents in the national education portal	MoE, DSHE, NCTB	2014	All teachers, learners and educational institutions would be able to collect teaching-learning materials easily.
4. Creating an education-friendly environment through infra-structural development of ICT	4.1 Establishment of ultra-modern ICT labs in the Teachers Training Institutes to develop the basic ICT skills of teachers	MoE, MoICT, NU, DSHE	2013	Teachers with ICT skills would become more available.
	4.2 Installing high speed internet at each Teachers Training Institute	MoE, MoICT, NU, DSHE	2013	Teachers will be better equipped with access to more information through internet.
	4.3 Establishing ICT libraries equipped with national/ international publications, periodicals and journals in the Teachers Training Institutes	MoE, MoICT, NU, DSHE	2013	Necessary learning materials required for development of teachers' professional skills would become easily available.
	4.4 Establishment of an electronic library with intercom facilities in all Teachers Training Institutes and having connectivity with the global research network	MoE, MoICT, NU, DSHE	2013	Teachers' exposure to global teaching methods and educational research would increase.
	4.5 Infrastructural development of the TTIs to facilitate training programs through video conference	MoE, MoICT, NU, DSHE	2013	Uniform standard of teachers training can be maintained.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	4.6 Establishment of a multi-media classroom with 1laptop, 1multi-media projector/LCD screen, internet connection at each educational institution for the use of ICT in education; Arrangement of substitute power source in case of no regular power supply	MoE, MoICT, DSHE	2013	Improvement will take place in classroom teaching-learning methods through ICT.
	4.7 Transforming all classrooms into multi-media classrooms for the use of ICT	MoE, MoICT, DSHE	2016	Learners will have better and wider access to the use of ICT.
	4.8 Establishment of ICT labs in each educational institution with adequate number of computer/laptop & internet connection for the use of ICT in education	MoE, MoICT, DSHE	2016	Learners will be better equipped in subject-based knowledge through practical lessons.
	4.9 Inclusion of all educational institutions under Bangladesh Research and Education Network (BdREN)	MoE, MoPME, DSHE, UGC	2015	Teachers & learners of concerned educational institutions will be able to easily and safely exchange relevant information and materials
	4.10 Formulation of policies/planning for the supply, use and maintenance of ICT materials & involving the Management Committees/community	MoE, DSHE, BCC	2012	Maintenance of ICT equipments in the schools will become easier.
	4.11 Regular telecasting of educational programs on Sangsad TV	MoI, MoE, BOU, DSHE	2012	Access to knowledge would be easier for teachers and students.
	4.12 Preparing quality programs for screening on TV	MoI, MoE, BOU, DSHE	2012	Quality programs for TV will be ensured; Teachers & learners will learn from these programs.
	4.13 Starting of new TV channels with assistance from the government for telecasting educational programs	MoI, MoE, BOU, DSHE	2020	Access to knowledge would be easier for teachers and students.
	4.14 Creation of a national educational portal for exchange of all materials and inclusion of all such teaching-learning materials into it	MoE, BISE, DSHE, BCC, NCTB	2012	All teaching-learning materials will be easily accessible. Exchange of knowledge-based learning will become easier among the schools. Teachers & learners will be able to download and print textbooks and print them.
	4.15 Supply of books on ICT (both in Bangla & English) in the libraries of all educational institutions	MoE, DSHE	2012	Teachers & students will have access to knowledge through the use of ICT.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	4.16 Building up one model school at every union as an information access centre (from where teachers and students of neighbouring villages can access ICT facilities)	MoE, MoICT, DSHE	2014	Information of secondary level education can be accessed through easily accessible website; monitoring would be easy; teachers & learners will gain ideas of the use of ICT.
	4.17 Establishment of Bangladesh ICT in Education Research Centre (BIERC) under MoE; activities of BIERC can start within the infrastructural facilities of BANBEIS	MoE	2013	Conducting of research activities in ICT in education will be easier; Monitoring & evaluation of the activities of ICT in education would be easy; effective use of ICT in education would increase.

6. D. Madrasa Education at Secondary & Higher Secondary Levels

Aims: Improvement of the quality of Madrasa education with the provision of an ICT-enabled teaching-learning environment and building up of a skilled human resource equipped with Islamic education, religious values and moral integrity corresponding to the knowledge-based society of the 21st century

Objectives of the use of ICT: Improvement of the teaching-learning activities in the classroom with the use of ICT

Objectives	Activities	Responsibilities	Time Limit	Expected Results
1. Educating all learners of Madrasa at all levels with ICT in education that meets the needs of times	1.1 Updating of curriculum/course contents and textbooks for Madrasa education relating to ICT in education at every three years to enhance the skills of learners in the use of ICT in the modern times.	MoE, BMEB, NCTB	2012	Learners will become skilled in modern and appropriate ICT.
	1.2 Ensuring recruitment of ICT graduates or at least diploma-holders as teachers for ICT instruction	MoE, DSHE, BMEB	2016	Skilled teachers in ICT can be made available. Classroom teaching in ICT would be more effective.
2. Developing of professional skills of teachers with the use of ICT	2.1 Inclusion of ICT materials in the teachers' training curriculum for the Madrasa teachers to enhance their skills (such as developing digital contents through basic computer, multimedia, internet, presentation software etc.)	MoE, BMEB, BMTTI, NU	2012	ICT skills of the teachers would be enhanced. Teachers will be better enabled to use ICT in the classroom.
	2.2 Creating, for the secondary level, master trainers of adequate number (at least 400) so that they can coordinate the teaching-learning activities in ICT within the classroom and train teachers in developing class-based teaching-learning materials	MoE, BMEB, BMTTI, TTC	2012	Skilled manpower will be created to provide ICT-based education within teachers' training.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	2.3 Provision of quality pre-service and in-service training for all Madrasa teachers at the secondary level to help them acquire primary skills in ICT to enable them to apply ICT in teaching-learning activities and develop relevant materials (Arrangement of such trainings at TTC, HSTTI, NAEM and BANBEIS till new BMTTIs are established)	MoE, DSHE, BMTTI, TTC, HSTTI, NAEM, BANBEIS	2015	Use of ICT in the classroom would make teaching-learning activities more effective.
	2.4 Introduction of Distance Learning Courses for the training of Madrasa teachers with the use of ICT	MoE, BOU, DSHE, BMTTI, BMEB, NU	2013	Madrasa teachers may become trained through distance learning. Number of trained teachers would increase.
	2.5 Provision of interest-free loan on easy conditions/grant to help teachers procure computer/laptop and ICT materials	MoE, MoF, MoICT, DSHE	2013	Teachers will feel motivated to use ICT.
3. Developing teaching-learning materials with the use of ICT	3.1 Developing class-based and subject-based multimedia learning materials (including self-learning and subsidiary items) by teachers, experts on materials development and specialists in education	MoE, BMEB, BMTTI, NCTB, BOU	2013	Quality teaching-learning materials would be made available.
	3.2 Preparing and distribution of videos on subject-based model class activities by teachers, experts on materials development and specialists in education	MoE, BMEB, BMTTI, NCTB, BOU	2013	Quality teaching-learning materials would be made available.
	3.3 Recognition and giving of awards in appreciation of developing ICT-based quality teaching-learning materials	MoE, BMEB, DSHE	2012	Teachers will feel interested in developing teaching-learning materials.
	3.4 Ensuring the preparation of such subsidiary education materials that can meet the needs of backward and disadvantaged learners	MoE, BMTTI, BMEB, NCTB	2014	Backward and disadvantaged learners will be able to learn by using substitute education materials.
	3.5 Preparing such supplementary technology and materials (such as text to speech, screen reader etc.) that can meet the needs of physically and mentally challenged learners	MoE, BMEB, BMTTI, NCTB	2014	Disabled learners would be able to learn through the use of substitute materials.
	3.6 Preparing self-learning subsidiary materials for the learners	MoE, BMEB, BMTTI, NCTB	2014	Learners will feel motivated in self-learning; Dependence on teachers will decrease.
	3.7 Inclusion of all textbooks and subsidiary digital contents into the national education portal	MoE, BMEB, BMTTI, NCTB	2014	All teachers, learners & educational institutions will be able to easily collect teaching-learning materials

Objectives	Activities	Responsibilities	Time Limit	Expected Results
4. Creation of education-friendly environment with the infrastructural development of ICT	4.1 Establishment of a ICT lab at Bangladesh Madrasa Teachers Training Institute (BMTTI)	MoE, DSHE, BMTTI	2013	Madrasas will be equipped with ICT; Teachers and students will become skilled in ICT.
	4.2 Establishment of ICT labs, at phases, at all madrasas with at least 20 computers/laptops	MoE, DSHE	2016	Madrasas will be equipped with ICT; Teachers and students will become skilled in the use of ICT.
	4.3 Establishment of a multi-media classroom with 1laptop, 1multi-media projector/LCD screen, internet connection at each Madrasa for the use of ICT in education; Arrangement of substitute power source in case of no regular power supply	MoE, DSHE	2013	Classroom teaching-learning will become more fruitful and effective.
	4.4 Transforming all Madrasa classrooms into multi-media classrooms for the use of ICT in education	MoE, DSHE,	2016	Classroom teaching-learning will become more fruitful and effective.
	4.5 Formulation of policies/planning for the supply materials, use and maintenance of ICT & involving the SMCs/community in the process	MoE, DSHE,	2012	Maintenance of ICT equipments at Madrasas will become more convenient.

6. E. Technical & Vocational Education at Secondary & Higher Secondary Levels

Aims: To help students grow up as skilled human resources and work force for the national and international job market with the improvement of the quality of education.

Objectives of the use of ICT: Improvement of the teaching-learning activities relating to the use of ICT in the classrooms, workshops and laboratories

Objectives	Activities	Responsibilities	Time Limit	Expected Results
1. Providing assistance to the learners of technical & vocational education to become skilled in modern ICT education that is appropriate to the needs of times	1.1 Updating the books and curriculum/course contents of technical & vocational education at every three/five years with an eye to the global market (outsourcing & others) in order to develop the learners' ICT skills that are appropriate to the needs of modern times	MoE, DTE, BTEB, NCTB	2013 onward	Students become skilled in modern and appropriate knowledge of ICT.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
2. Developing professional skills of teachers with the use of ICT	2.1 Inclusion of ICT materials (such as developing of digital contents through basic computer, multimedia, internet, presentation software etc.) in the curriculum of teachers' training to enhance the basic skills of teachers	MoE, DTE, BTEB, NCTB	2012	ICT skills of teachers will improve.
	2.2 Creating, for technical & vocational education, master trainers of adequate number (at least 100), for the coordination of teaching-learning within the classroom and training of teachers in developing class-based ICT teaching-learning materials for all classes	MoE, DTE, BTEB, NCTB	2013	Skilled manpower will be created in the area of teachers' training with focus on ICT
	2.3 Provision of pre-service and in-service training for all teachers to help them acquire primary skills in ICT to enable them to apply ICT in teaching-learning activities and develop relevant materials	MoE, DTE	2015	Teachers skilled in ICT will be able to use ICT in classroom activities.
	2.4 Provision of interest-free loan on easy conditions/grant to the teachers to help buy computer/laptop and ICT materials	MoE, DTE, MoICT, MoF	2012	Teachers will feel motivated to use ICT
3. Development of teaching-learning materials with the use of ICT	3.1 Developing class-based and subject-based multimedia learning materials (including self-learning and subsidiary items) by teachers and experts in materials development	MoE, DTE, BTEB, BOU	2013	Quality teaching-learning materials would be made available.
	3.2 Preparing of videos on subject-based model class activities, developed by teachers & experts on learning materials	MoE, DTE, BTEB, BOU	2013	Quality teaching-learning materials would be made available.
	3.3 Recognition and giving of awards in appreciation of developing ICT-based quality teaching-learning materials	MoE, DTE, BTEB	2012	Teachers/learners /individuals/ institutions will become interested in developing teaching-learning materials.
	3.4 Ensuring the preparation and use of such subsidiary education materials that can meet the needs of backward and disadvantaged learners	MoE, DTE, BTEB, BOU	2013	Backward and disadvantaged learners will be able to learn with the use of substitute education materials.
	3.5 Preparing supplementary technology and materials (such as text to speech, screen reader etc.) for the physically and mentally challenged learners	MoE, DTE, BTEB, BOU	2014	Learning would be easier for the disabled learners.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	3.6 Inclusion of all textbooks and subsidiary digital contents into the national education portal	MoE, DTE, BTEB, NCTB	2014	Teachers/learners /individuals/institutions will be able to collect teaching-learning materials.
4. Creation of education-friendly environment with the infrastructural development of ICT	4.1 Establishment of an ICT lab in each technical school and college (TSC)	MoE, DTE,	2013	Institutions offering technical & vocational education will become equipped with ICT. Teachers and students will become skilled in the use of ICT.
	4.2 Establishment of an ICT lab in each Vocational Teachers Training Institute (VTTI)	MoE, DTE	2013	Teachers training will become more effective with the use of ICT. Teachers will become skilled in the use of ICT.
	4.3 Establishment of an ICT lab in each Technical Teachers Training College (TTTC)	MoE, DTE	2012	Teachers training will become more effective with the use of ICT. Teachers will become skilled in the use of ICT.
	4.4 Establishment of an ICT lab in each Engineering College	MoE, DTE	2012	Students will become skilled in the use of ICT.
	4.5 Establishment of an ICT lab in each Polytechnic Institute	MoE, DTE	2013	Students will become skilled in the use of ICT.
	4.6 Equipping each classroom and lab of each technical school & college with multimedia facilities (such as laptop, multimedia projector and internet connection)	MoE, DTE	2012	Teaching-learning in the classroom will become more fruitful and effective.
	4.7 Equipping each classroom and lab of each Vocational Teachers Training Institute (VTTI) with multimedia facilities (such as laptop, multimedia projector and internet connection)	MoE, DTE	2012	ICT will be used in teachers' training.
	4.8 Equipping each classroom and lab of each Teachers Training Institute (TTTC) with multimedia facilities (such as laptop, multimedia projector and internet connection)	MoE, DTE	2012	ICT will be used in teachers' training.
	4.9 Equipping each classroom and lab of each Engineering College with multimedia facilities (such as laptop, multimedia projector and internet connection)	MoE, DTE	2012	Teaching-learning in the classroom will be more fruitful and effective.
	4.10 Equipping each classroom and lab of each Polytechnic Institute with multimedia facilities (such as laptop, multimedia projector and internet connection)	MoE, DTE	2013	Teaching-learning in the classroom will be more fruitful and effective. Teachers and students will have greater opportunities to use ICT.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	4.11 Preparing online catalogue in the libraries of each institution of Vocational & Technical education and creating therein facilities of online services like searching, requisition etc.	MoE, DTE	2015	Library management will become more efficient. Use of the library by the teachers and students will become easier.
	4.12 Transforming the important collection of books and journals of the libraries of each institution of Technical & Vocational education into digital formats	MoE, DTE	2015	Use of the library by the teachers and students will become easier.
	4.13 Publishing any new item into the digital format and inclusion and preservation of every publication in the digital library	MoE, DTE	2020	Library management will become more efficient. Use of the library by the teachers and students will become easier.
	4.14 Creating a placement cell for the graduates of Bangladesh Technical Education Board in order to assist and provide them with necessary services	MoE, DTE, BTEB	2013	Learners will find early placement. Employers will find skilled human resource.
	4.15 Assessment of the demand of technical human resource for national and international industrial houses and creation of a MIS	MoE, DTE, BTEB	2015	Preparing and implementation of curriculum and education planning as per the assessed needs
	4.16 Developing the EMIS for the exchange and supply of different information regarding technical and vocational education	MoE, DTE	2013	Availability of necessary information relating to the planning of education will be ensured; people will have access to necessary information about technical and vocational education.

6. F Higher Education

Aims: Creating an ICT-friendly learning environment to ensure quality higher education and building up a knowledge-based society to face the challenges of the 21st century

Objectives	Activities	Responsibilities	Time Limit	Expected Results
1. Use of ICT for the development and creation of opportunities in the institutions of higher education	1.1 Provision of ICT opportunities in the institutions of higher education would require: a) multimedia facilities in all classrooms; b) computer facilities with high speed internet connection in the seminar libraries of each department; c) establishment of ICT lab with computer of advanced technology, other ICT materials and connection of high speed internet to facilitate practical lessons; d) creating opportunities of "remote lab" at the university level;	MoE, UGC, Universities	2015	Higher education institutions will be enriched with ICT. Acquisition of knowledge would become easier for the teachers and students with the use of ICT.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	e) if necessary, provision of high speed wireless internet connection in each institution; f) establishment of necessary number of internet browsing centres for use of the students; g) Providing computer with internet connection to all teachers; h) establishment of powerful ICT support cell/help desk; recruitment of skilled manpower for repairing, providing of services and maintenance of ICT materials i) ensuring free internet services for the teachers and students of all higher education institutions			
	1.2 Establishing digital library in each institution of higher education Phase-I a) preparing online catalogues for central & departmental libraries of all higher education institutions b) preparing all catalogues in accordance with the open standard i.e. MARC so that these can be interchanged c) developing provision of online services in the libraries of these institutions d) connecting libraries of all higher education institutions with the digital library of University Grants Commission Phase-II a) transmittal of books and journals of the central & departmental libraries of higher education institutions into the digital format b) each publication of any higher education institution to be made available simultaneously in printed & digital versions c) each digital publication has to be put into the accession and preservation process of the digital libraries of the universities	MoE, UGC	2015	Improved skills in library management; easy access of the teachers and students to books and journals; adequate opportunities of access to knowledge and encouraging the cultivation of knowledge

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	<p>1.3 Following opportunities to be created in Bangladesh Open University (BOU) for conducting ICT-based distance learning program</p> <p>a) establishing connectivity of the central campus of BOU with all regional offices to run the countrywide education program</p> <p>b) provision of separate radio & TV channel for BOU education programs</p> <p>c) provision of interactive virtual classrooms and creating facilities of web-based lecture presentation to realize the objectives of teaching</p> <p>d) creating teaching facilities through TV with the use of ICT tools and 'mobile' technology</p> <p>e) establishing a teaching method with internet radio</p> <p>f) automation of BOU to make its academic and administrative activities more radical, transparent and efficient</p> <p>g) ensuring high speed internet connection</p> <p>h) provision of special training for the teachers of BOU to enable them to use ICT and educational tools & digital contents</p> <p>i) introduction of online education program</p>	MoE, UGC, BOU	2016	Building up strong network across the country with skilled manpower; developing human resource by a larger coverage of population within the program of distance learning
	1.4 Creating opportunities of video conferencing, centrally as well as departmentally at the higher education institutions	MoE, UGC, Universities	2015	Expediting academic and administrative activities in inter-university communication & UGC

Objectives	Activities	Responsibilities	Time Limit	Expected Results
2. Increasing the use of ICT to enhance the professional skills of the teachers to meet the needs of the fast-changing society in this age of globalization	2.1 Provision of training for teachers on the use of ICT in education to enhance their professional skills. To realize this, it is imperative on the part of UGC (for teachers of the universities) and for National University (for the college teachers) to establish 2 training institutes which can deliver the following facilities: a) Creating opportunities for the basic ICT skills b) introduction of some special courses on improved delivery and teaching methods for the teachers to enable them to use ICT in the classroom (such as, power-point presentation, general animation, searching various educational materials on the internet and putting these to use) that will have positive effects on teaching methods c) creating opportunities on training on video conferencing d) encouraging skill development on digital instructional design through workshop & seminar e) arrangement of special training on preparing digital contents	MoE, UGC, NU	2015 (in progress)	Improvement of the professional skills of the teachers
	2.2 Encouraging teachers to develop ICT-based materials through a) arrangement of special seminar/courses/ workshop on digital instructional design b) creating a repository of existing digital educational materials c) award of prizes on the development of digital educational materials for higher education	MoE, UGC, Universities	2018 (In progress)	Will contribute to developing digital content & education materials out of the skills acquired from digital instructional design

Objectives	Activities	Responsibilities	Time Limit	Expected Results
3. Coordination of ICT to upgrade the standard of teaching-learning up to the international level	3.1 Ensuring the standard of quality of the digital education materials	MoE, UGC, Universities	2015	Teaching-learning standards will be upgraded to the international level
	3.2 Enhancing teaching-learning standards through exchange of education materials & curriculum with higher education institutions of other countries	MoE, UGC, Universities	2015	Teaching-learning standards will be upgraded to the international level
4. Ensuring the use of ICT to encourage creation of new and fresh knowledge and exchanges thereof	4.1 Establishing mutual contacts with national/international higher education institutions through ICT to facilitate and encourage exchange of new knowledge and ideas	MoE, UGC, Universities	2015	Teaching-learning standards will be upgraded to the international level
	4.2 Use of ICT to establish liaison between higher education institutions and industries and to create human resource as per the needs of the later	MoE, UGC, Universities	2015	Creating manpower as per the country's requirement with coordinated efforts of the higher education institutions & the industries
	4.3 Establishment and maintenance of a common platform or "Community of Practice" for exchange of teachers' knowledge & innovation	MoE, UGC, Universities	2015	Creating and encouraging new research through exchange of knowledge acquired & innovative efforts
5. Ensuring of proper use of ICT with the objective of making the administrative & academic activities of the higher education institutions more radical, transparent and efficient	5.1 Bringing in the administrative & academic activities of higher education institutions under automation or a computerised system, which will include administration, finance & accounts, planning & development, admission & publication of results of all exams, research, recruitment, training, purchase etc.	MoE, UGC, Universities	2015	Skill development in administrative & academic activities & accountability of these institutions will be increased.
6. Continuation of the research activities of the universities	6.1 Establishing a modern ICT-based Centre of Excellence in each university	MoE, UGC, Universities	2015	Recognition in research and educational activities will be achieved.

Objectives	Activities	Responsibilities	Time Limit	Expected Results
	6.2 Ensuring online subscription of foreign journals of international standard	MoE, UGC, Universities	2020 (In progress)	Research work within the universities will be strengthened.
	6.3 Establishing collaborative arrangements in the area of research of the universities at national and international levels	MoE, UGC, Universities	2020 (In progress)	International standard of research activities of the universities will be ensured.

6. G Education Administration

Objectives of the use of ICT: Ensuring of education management that guarantees transparency, efficiency, access and equity befitting with the needs of quality education of the 21st century; bringing education to the doorsteps of the people at inexpensive costs with public and non-governmental collaboration.

Objectives	Activities	Responsibilities	Time limit	Expected Results
1. Ensuring transparency, efficiency and accountability in education management with the use of ICT	1.1 Infrastructural development of all the educational institutions under MoE & MoPME; Preparing & updating of policies relating to management, ownership and financing in this regard	MoE, MoPME, MoF, MoICT	June, 2012	Definitive policies will ensure transparency in infrastructural development; opportunities of community/private sector participation in the management of equipments/infrastructure will be created.
	1.2 Preparing & implementation of policies relating to the use of inexpensive, open, standardized and widely used software	MoE, MoPME, MoICT	2012	Use of open and standardized technology would make mutual communication easier; management costs will come down.
	1.3 Preparing policies/ standards/ framework (common platform, interoperability and standardization) of existing Education Management Information System (EMIS) to make exchanges of information easier	MoE, MoPME, MoICT, BCC	June, 2012	Development & coordination of Education Management Information System (EMIS) and exchanges of information would be easier. Costs of development of MIS and management will come down.
	1.4 Development, enlargement and coordination of the Pre-Primary & Primary Education MIS on the basis of accepted standard/framework	MoPME, DPE	2012	Access to statistics of Pre-Primary & Primary education and preparing of plans would be easier; management would improve.
	1.5 Development, enlargement and coordination of the MIS of Post-Primary Education on the basis of accepted standard/framework	MoE, BANBEIS, DSHE	2013	Access to statistics of Secondary & Higher Secondary education and preparing of plans would be easier; management would improve.
	1.6 Development, enlargement and coordination of the MIS of NFE on the basis of accepted standard/framework	MoPME, BNFE	2013	Access to statistics of Non-Formal education and preparing of plans would be easier; management would improve.

Objectives	Activities	Responsibilities	Time limit	Expected Results
	1.7 Development, enlargement and coordination of the MIS of Higher Education on the basis of accepted standard/framework	MoE, UGC, BANBEIS	2012	Access to statistics of Higher Education and preparing of plans would be easier; management would improve.
	1.8 Development, enlargement and coordination of the MIS of TVET on the basis of accepted standard/framework	MoE, DTE, BANBEIS	2013	Access to statistics of TVET and preparing of plans would be easier; management would improve.
	1.9 Development, enlargement and coordination of the MIS of Madrasa Education on the basis of accepted standard/framework	MoE, BMEB, BANBEIS	2013	Access to statistics of Madrasa Education and preparing of plans would be easier; management would improve.
	1.10 Establishment of Bangladesh Education Sector Decision Support System	MoE, MoPME	2014	Decision-making at the higher level would be easier; Policy making would be supported by information
	1.11 Building up an effective and high-tech office management system in MoPME and MoE that will include: a) Personnel Management Information System (PMIS) b) Project Management System (PMS) c) Financial Management System d) e-filing system	MoE, MoPME	2012	Transparency, accountability and mobility would be created in education administration and improvement of skills will take place.
	1.12 Building up an effective and high-tech office management system in the Directorates and Departments under MoE and MoPME that will include: a) Personnel Management Information System (PMIS) b) Project Management System (PMS) c) Financial Management System	MoE, MoPME, DSHE, DTE, DPE, BNFE	2013	Transparency, accountability and mobility would be created in education administration and improvement of skills will take place.
	1.13 Establishment of Education Institution Management System (EMIS) in MoPME & MoE that will include: a) management information of the educational institutions b) performance auditing system of the educational institutions c) standard school visit report d) online reporting and feedback system e) academic supervision system f) system related to applications for establishing new schools, approval and inclusion of personnel in MPO	MoE, MoPME, DSHE, DTE, DPE, BNFE, BMEB, BANBEIS, BISF, BTEB	2013	Both the ministries will be equipped with necessary information of educational institutions; monitoring would be easier and transparent as well.

Objectives	Activities	Responsibilities	Time limit	Expected Results
	1.14 Preparation of a database for the learners enrolled in Primary education in coordination with birth registration/National Population Register and provision of a <i>unique</i> learner ID that helps to track them later on	MoPME, DPE	2013	Non-enrolled children can be identified; correct information of the enrolled learners would be available; tracking of learners in the post-primary stage at other levels would also be possible; drop out at post-primary stage can be sorted out; rate of exact dropout can be traced.
	1.15 Initiating the tracking system for students enrolled at the secondary schools with the help of the IDs issued to them at the primary level	MoE, DSHE, DTE, BMEB, BANBEIS, BISE, BTEB	2013	Learners graduating to secondary from the primary level can be tracked; rate and nature of drop out can be identified; education planning would be easier.
2. Providing education services at the doorsteps of the people	2.1 Creating online services for all students for admission, registration, filling up of exam. forms and submission of fees (through internet, SMS and mobile devices)	MoE, MoPME, UGC, DPE, DSHE, DTE, BTRC, BMEB, BISE, BTEB	2012	Admission and registration would be easier for the students; the process of admission and registration would become transparent.
	2.2 Publication of the results of all public exams. on the internet, website, e-mail and SMS on the mobile phones	MoE, MoPME, UGC, DPE, DSHE, DTE, BTRC, BMEB, BISE, BTEB	In progress	Students and guardians will have easy access to the results of public exams.
	2.3 Provision of online applications, processing and publication of results in matters of pension of the teachers and employees to make the disbursement process transparent and speedy	MoE, MoPME, UGC, DPE, DSHE, DTE	2012	Teachers and other employees will receive their due pension within a fixed time; their hassle in this regard will decrease.
	2.4 Online publication of employment notice for recruitment, receipt of applications, sorting and final result (which can be accessed on the mobile phone)	MoE, MoPME,	2012	Recruitment process will be time-efficient and transparent.
	2.5 Establishment, regular updating & maintaining of a National Education Portal (with blog facilities) equipped with all information on the education sector of Bangladesh including all documents, planning, books and digital contents	MoE, MoPME,	2013	Anybody from anywhere of the world would be able to access information and resources about the education sector of Bangladesh. Bangladesh education sector will be made familiar to the world.

Objectives	Activities	Responsibilities	Time limit	Expected Results
3. Ensuring accessibility of all to education management	3.1 Formation and implementation of a document format and standard encoding (BDS 1520.2011) to ensure the exact process of exchanging documents among Ministry and the Directorates, Departments, Education Boards and other offices under the Ministry	MoE, MoPME, MoICT, BCC, DPE, DSHE, DTE, BNFE, BMEB, BANBEIS	2012	Conservation and exchange of information would become ICT-based and modern in operation. Exchange of documents among the offices would become easier.
	3.2 Preparing a framework for developing, hosting and management of a dynamic website enabled for use in all devices as available in the educational institutions under MoE & MoPME	MoE, MoPME, DPE, DSHE, DTE, BISE, BMEB, BTEB	2012	All institutions will be enabled to build up and manage their websites by using this framework; there will be a coherence among the websites of the educational institutions; cost will go down in preparing and management of websites
	3.3 Preparing and regular updating of the dynamic website of each educational institution on the basis of the framework in use	MoE, MoPME, DPE, DSHE, DTE, BMEB, BISE	2012	All information about education management can be accessed by an easily usable website.
	3.4 Provision of low-cost connectivity (computer, data network, high speed internet) meant to facilitate exchange of information among MoE, MoPME and all offices and educational institutions under them	MoE, MoPME, BTRC, MoICT, MoPT	2013	Progress of ICT can be realized in all areas of administrative activities; supply of all information relating to education management from the upazila to national levels will be ensured; transparency, efficiency and accountability will be ensured in education management.
	3.5 Developing and patenting of inexpensive Bangla text processing tools (text to speech, screen reader etc.) and a software that enables transmitting of printed matters into audio materials in view of the requirement of the physically disabled learners and those with special needs	MoE, MoPME, MoICT	2015	Learning of the disabled and illiterate persons would become easier.
	3.6 Initiating the phase-wise use of open source software in all educational institutions	MoE, MoPME, MoICT	2016	Software piracy would be removed; meritorious software experts will be available at all levels.
	3.7 Supply of adequate number of books on ICT to the libraries of all educational institutions	MoE, MoPME	2012	All learners will have access to the knowledge storage of ICT
	3.8 Phase-wise transforming of the libraries of the educational institutions into digital ones with online catalogues	MoE, MoPME	2015	Access to knowledge would be easier; mutual opportunities would be created to use the materials of library of different institutions; undertaking of research work will be easier.
	3.9 Establishment of an Education Data Centre under MoE to securely conserve all information related to MoE & MoPME	MoE, MoPME, BCC	2014	All information related to education can be securely conserved.

Government of the People's Republic of Bangladesh

Ministry of Education

No. MoE/ICT Cell-80/2002/249

Dated November 16, 2009

Notification

The following Committee is constituted to prepare the ICT Master Plan in Education to develop an Education System, with the use of ICT, which becomes efficient and suited to the appropriate needs of time.

1. Chairman, Hon'ble Minister, Ministry of Education

Members:

2. Secretary, Ministry of Education
3. Secretary, Ministry of Primary and Mass Education
4. Secretary, Ministry of Science and Information & Communication Technology
5. Chairman, University Grants Commission
6. Dr Md Zafar Iqbal, Professor & Head of the Department, CSE, Shahjalal University of Science & Technology
7. Prof. Abdullah Abu Sayeed, Renowned Educationist & Chairman, Biswa Sahitya Kendra
8. Addl Secretary, (Admn. & Finance), Ministry of Education
9. Director General, Department of Secondary & Higher Secondary Education
10. Director General, Department of Technical Education
11. Director General, Department of Primary Education
12. Director General, Bureau of Non-Formal Education
13. Chairman, National Curriculum & Textbook Board
14. Chairman, Madrasa Education Board
15. Representative, A2I Programme, PMO
16. Representative, Bangladesh Computer Council
17. Director, BANBEIS
18. President, Bangladesh Computer Association
19. System Analyst, Ministry of Education, Member-Secretary

2. Scope of the Committee

- a) The Committee will prepare a Master Plan regarding the use of ICT in Education.
- b) In the process of preparation of the Master Plan, the Committee will ensure the awareness and involvement of the teachers and students at all levels about the use of ICT; take measures to improve their skills; take care of the use of ICT in the enhancement of the standard of education and further ensure the improvement of the educational system with the use of ICT.
- c) In order to successfully perform the functions mentioned above, the Committee can constitute one or more working committees and fix up the scope of their activities.
- d) The working committees may consist of the representatives of the Government or non-governmental agencies and development partners and specialists in ICT. The working committee(s) will submit the draft of their proposals to the parent committee; which will then review the reports of the working committee(s) and subsequently place the suggested activities to the Government for implementation.
- e) If necessary, the Committee can co-opt any deserving member into it.

3. UNESCO Bangladesh will offer necessary technical assistance to the Committee to prepare the Master Plan.

By order of the President,
Signed on 16.11.2009
(Razia Begum, NDC)
Addl. Secretary (Admn. & Finance)
Ph. 7166261

Appendix 2: Working Committees

Government of the People's Republic of Bangladesh
Ministry of Education
Wing -1 (Administration & Establishment)
www.moedu.gov.bd

No. MoE/Admn/8-5/2010/588

Dated Boishakh 21, 1417; May 04, 2010

Notification

A working committee has been constituted with the following members to help prepare the ICT in Education Master Plan specifically in the area of higher education with the view to build up, with the use ICT, an educational system that is efficient and suitable to the needs of the present times.

1.	Chairman, University Grants Commission	Chairman
2.	Prof. Abdullah Abu Sayeed, Chairman, Biswa Sahitya Kendra	Member
3.	Vice-Chancellor, Dhaka University	Member
4.	Vice-Chancellor, Bangladesh University of Engineering & Technology	Member
5.	Vice-Chancellor, Sher-e-Bangla Agricultural University	Member
6.	Vice-Chancellor, Jahangirnagar University	Member
7.	Vice-Chancellor, Shahjalal University of Science & Technology	Member
8.	Vice-Chancellor, National University	Member
9.	Vice-Chancellor, Bangladesh Open University	Member
10.	Representative, UNESCO Dhaka Office	Member
11.	Representative, A2I Programme, PMO	Member
12.	Representative, Ministry of Science, Information & Technology	Member
13.	Representative, Bangladesh Telecommunication Regulatory Commission	Member
14.	Representative, Ministry of Post & Telecommunications	Member
15.	Representative, Bangladesh Computer Association	Member
16.	Md. Mokhlesur Rahman, Joint Secretary, UGC	Member-Secretary

2. Scope of the Activities

- Determining the activities to help those learners acquire necessary skills in ICT, who could not acquire the same at the secondary level;
- Identifying the various areas in higher education where ICT can be used and the methods thereof accordingly prepare the plan of its implementation;
- Preparing the plan of the use of ICT in the areas of open and distance learning; In order to it, the committee may review the role of Open University, National University and other public/private universities and recommend about their roles in open and distance learning;
- Preparing the plan of building up a national portal with the compilation of subsidiary materials and various documents related to research and higher education;
- Preparing the plan of training for the teachers in the use of ICT both for teaching and as a supplementary tool of learning;
- Preparing the plan of the use of ICT in the improvement of the management of higher education (management of universities, students and examination)
- Preparing the plan of monitoring and evaluation of the proposed activities
- Other related activities
- If necessary, the Committee can co-opt any deserving member into it.

3. This has the approval of appropriate authority.

By order of the President

(Moinuddin Ahmed)
Senior Assistant Secretary
Ph. 7161130

Government of the People's Republic of Bangladesh
Ministry of Education
Wing -1 (Administration & Establishment)

No. MoE/Admn./8-5/2010/545

Dated Boishakh 13, 1417; April 26, 2010

Notification

A working committee has been constituted with the following members to help prepare the ICT in Education Master Plan specifically in the areas of secondary, technical, vocational and Madrasa education with the view to build up, with the use ICT, an educational system that is efficient and suitable to the needs of the present times.

17.	Secretary, Ministry of Education	Chairman
18.	Vice-Chancellor, Bangladesh Open University	Member
19.	Vice Chancellor, National University	Member
20.	Additional Secretary (Admn. & finance), Ministry of Education	Member
21.	Professor Muhammad Zafar Iqbal, Shahajalal University of Science and Technology	Member
22.	Director General, Directorate of Secondary and Higher Education	Member
23.	Director General, Directorate of Technical Education	Member
24.	Chairman, NCTB	Member
25.	Chairman, Dhaka Education Board	Member
26.	Chairman, Madrasah Education Board	Member
27.	Chairman, Technical Education Board	Member
28.	Director General, NAEM	Member
29.	Director, Bureau of Educational Information and Statistics.	Member
30.	Representative, Ministry of Information and Communication Technology.	Member
31.	Representative, Post and Telecommunications Ministry	Member
32.	Representative, Bangladesh Telecommunication Regulatory Commission	Member
33.	Representative, Institute of Education and Research, Dhaka University	Member
34.	Policy Advisor, A2I Program, PM Office	Member
35.	Representative, UNESCO	Member
36.	Representative, ILO	Member
37.	Representative, Bangladesh Association of Software and Information Services	Member
38.	System Analyst, Ministry of Education	Member
39.	Joint-Secretary (Audit and Law), Ministry of Education	Member-Secretary

Scope of the Activities

- Preparing a plan that identifies the probable measures that can be taken to enhance the standard of secondary, technical, vocational and Madrasa education with the use of ICT;
- Determining the ICT skills that should be imparted to the learners at the secondary level that help them in the workplaces **and** to develop the relevant curriculum **and** to recommend on related matters;
- Planning the training of teachers for the improvement of the standard of learning and teaching in secondary, technical, vocational and Madrasa education with the use of ICT;
- Framing the plan of action in the management of secondary, technical, vocational and Madrasa education with the use of ICT;
- Preparing the plan of monitoring and evaluation of the proposed activities
- Other related activities.
- If necessary, the Committee can co-opt any deserving member into it.

3. This has the approval of appropriate authority.

By order of the President

(Moinuddin Ahmed)
Senior Assistant Secretary
Ph. 7161130

Government of the People's Republic of Bangladesh
Ministry of Education
Wing -1 (Administration & Establishment)

No.MoE/Admn/8-5/2010/546

Dated Boishakh 13, 1417; April 26, 2010

Notification

A working committee has been constituted with the following members to help prepare the ICT in Education Master Plan with the specific objective of initiating e-governance and providing e-services in order to build up, with the use ICT, an educational system that is efficient and suitable to the needs of the present times.

1.	Addl. Secretary (Admn. & Finance) Ministry of Education	Chair
2.	Prof. Md. Zafar Iqbal, Shahjalal University of Science & Technology	Member
3.	Representative, MoPME	Member
4.	Representative, Ministry of Science & ICT	Member
5.	Representative, Ministry of Information	Member
6.	Representative, Ministry of Post & Tele-Communications	Member
7.	Representative, Bangladesh Telecommunication Regulatory Commission	Member
8.	Representative, Directorate of Secondary and Higher Secondary Education	Member
9.	Representative, Department of Primary Education	Member
10.	Representative, Bangladesh Computer Council	Member
11.	Representative, A2I Program. PMO	Member
12.	Representative, BANBEIS	Member
13.	Representative, UNESCO	Member
14.	Representative, Bangladesh Computer Association	Member
15.	Representative, Association of Mobile Telecom Operators in Bangladesh (AMTOB)	Member
16.	System Analyst, Ministry of Education	Member-Secretary

2. Scope of Activities

- Determining a standard document format that can be used for all areas;
- Determining the encoding of standard for the use of Bangla lingua in the computer so that all government and non government educational institutions can share/exchange information with the use of one single encoding and document format;
- Preparing a plan for the use of ICT to improve educational management from the Ministry downward to all levels (divisional, district, upazila, educational institutions etc.);
- Bringing in dynamism in educational management with the use of ICT **and** identifying the necessary infra-structural and legal amendments **and** accordingly, framing the recommendations in this regard to offer that dynamism a lasting character;
- Preparing a plan for the use of ICT in education to improve the educational materials (textbooks, syllabus etc.) **and** to make them easily available;
- Framing of strategies **and** recommendations for the implementation of making the services of the government available at the doorsteps of people;
- Preparing the plan of monitoring and evaluation of the proposed activities
- Other related activities.
- If necessary, the Committee will co-opt any deserving member into it.

3. This has the approval of appropriate authority.

By order of the President

(Moinuddin Ahmed)
Senior Assistant Secretary (Admn.)
Ph. 7161130

No.MoPME/Admn.-1/15(2)-ICT/2010-309

Dated Boishakh, 1417; May 5, 2010

Notification

A working committee has been constituted with the following members to help prepare the ICT in Education Master Plan with specific reference to Early Childhood Education and Development; Non-Formal and Primary education.

1.	Secretary, Ministry of Primary & Mass Education	Chairman
2.	Director General, Department of Primary Education	Member
3.	Director General, Bureau of Non-Formal Education	Member
4.	Director General, National Academy of Primary Education	Member
5.	Representative, Ministry of Science and Information Technology	Member
6.	Representative, Ministry of Post and Telecommunications	Member
7.	Representative, Ministry of Women and Children Affairs	Member
8.	Professor Md Zafar Iqbal, Shahjalal University of Science and Technology	Member
9.	Representative, National Curriculum & Textbook Board	Member
10.	Representative, Institute of Education & Research, Dhaka University	Member
11.	Representative, A2I Program, PMO	Member
12.	Representative, UNICEF	Member
13.	Representative, UNESCO	Member
14.	Representative, ILO	Member
15.	Representative, CAMPE	Member
16.	Representative, Bangladesh Computer Association	Member
17.	Joint Secretary (Admn.) MoPME	Member-Secretary

Scope of Activities

- Preparing a plan to suggest measures that can be taken with a view to improve the quality of education at ECCD, Non-Formal education (inclusive of literacy) and primary education with the use of ICT;
- Preparing a plan of teachers' training to improve the skills with the use of ICT in the areas of teaching-learning;
- Preparing an action plan about the use of ICT in education management
- Preparing the plan of monitoring and evaluation of the proposed activities.

By order of the President,
Signed
(Md. Zahid Hossain)
Senior Assistant Secretary
Ph. 7168646
sasdmn1@mopme.gov.bd

Bangladesh University Grants Commission
Agargaon, Dhaka

Memo no. UGC/ICT unit/01/2010/ ICT in Education Master Plan/10057

Date: 10-10-2010

Office Order

Subject: Constitution of the Sub-Committee for Higher Education relating to
ICT in Education Master Plan

The Committee constituted for ICT in Education Master Plan met in a meeting on 29.07.2010. It further constituted a sub-committee with the following five members.

- | | | |
|----|--|----------------------|
| 1. | Professor Dr Suraiya Parveen
Chairman, Department of Computer Science and Engineering, Dhaka University | Convener |
| 2. | Professor Dr. K. M. Rezanur Rahman
Dean, School of Science and Technology
Bangladesh Open University | Member |
| 3. | Professor Dr. Shahjahan Tapon,
UNESCO Dhaka Office | Member |
| 4. | Dr. Md. Liakat Ali.
Associate Professor, IICT, BUET | Member |
| 5. | Khandokar Hamidur Rahman
Assistant Professor , TID, University Grants Commission | Member-
Secretary |

By order of the Authority

(Khandokar Hamidur Rahman)
Assistant Professor
TID, BUGC

Circulation:

1. Professor Dr Suraiya Parveen, Chairman, Department of Computer Science and Engineering, Dhaka University
2. Professor Dr. K. M. Rezanur Rahman, Dean, School of Science and Technology, Bangladesh Open University.
3. Professor Dr. Shahjahan Tapon, UNESCO Dhaka Office, House# 122, Road# 01, Block-F, Banani, Dhaka.
4. Dr. Md. Liakat Ali, Associate Professor, IICT, BUET
5. Khandokar Hamidur Rahman, Assistant Professor , TID, University Grants Commission

CC for kind information and necessary action:

1. Chairman, Bangladesh University Grants Commission & Convener, ICT in Education Master Plan Committee, Dhaka
2. Md. Mokhlesur Rahman, Joint Secretary, Bangladesh University Grants Commission & Member-Secretary, ICT in Education Master Plan Committee, Dhaka.
3. File
4. Master File

Office Order

A sub-committee with the following members has been constituted to prepare the draft proposals relating to Secondary, Technical, Vocational and Madrasa Education in connection with the preparation of ICT in Education Master Plan.

1.	Joint Secretary (Audit and Law), Ministry of Education	Convener
2.	Chairman, Madrasa Education Board	Member
3.	Director (Planning and Development), Directorate of Secondary and Higher Education	Member
4.	Director (Planning and Development), Directorate of Technical Education	Member
5.	Member, Curriculum, NCTB	Member
6.	Deputy Director (System), Bangladesh Computer Council	Member
7.	Mr. Anir Chowdhury (Policy Advisor) A2I Program, PMO	Member
8.	System Analyst, Ministry of Education	Member-Secretary

Scope the Committee:

- The Committee will submit the final draft in relating to the said Master Plan in the areas of Secondary, Technical, Vocational and Madrasa Education to Secretary, Ministry of Education within one month;
- If necessary, the Committee can co-opt any deserving member into it.

2. It has the approval of the appropriate authority.

By order of the Authority

(Md. Mofakhkharul Islam)
System Analyst
Phone : 7162653
E-mail: sa@moedu.gov.bd

Circulation:

- Joint Secretary (Audit and Law), Ministry of Education
- Chairman, Madrasa Education Board, Dhaka
- Director (Planning and Development), Directorate of Secondary and Higher Education, Dhaka
- Director (Planning and Development), Directorate of Technical Education, Dhaka.
- Member, Curriculum, NCTB, Dhaka
- Deputy Director (System), Bangladesh Computer Council, Dhaka
- Mr. Anir Chowdhury (Policy Advisor) A2I Program, Prime Minister's office, Dhaka
- System Analyst, Ministry of Education

CC for kind information:

- Personal Secretary, Secretary, Ministry of Education, Dhaka
- Additional Secretary (Administration and Finance), Ministry of Education, Dhaka

Sub Committee on Primary Education for ICT in Education Master Plan

- | | | |
|----|---|------------------|
| 1. | Joint Secretary (Administration), Ministry of Primary and Mass Education | Convener |
| 2. | Representative, UNESCO | Member |
| 3. | Mr. A. Rafiq, UNESCO | Member |
| 4. | Director (Policy and Operation), Directorate of Primary Education
Programmer, Ministry of Primary and Mass Education | Member |
| 5. | Deputy Secretary (Administration), Ministry of Primary and Mass
Education | Member-Secretary |

Sub Committee on Non-Formal Education for ICT in Education Master Plan

- | | | |
|----|---|------------------|
| 1. | Joint Secretary (Development), Ministry of Primary and Mass Education | Convener |
| 2. | Dr. Md. Aminul Islam, Deputy Secretary,
Ministry of Women and Children Affairs | Member |
| 3. | Mr. Borhan Uddin, UNESCO, Dhaka Office | Member |
| 4. | Mr. Mizanur Rahman, CAMPE | Member |
| 5. | System Analyst, BNFE | Member |
| 6. | Deputy Secretary (Administration), Ministry of Primary and Mass
Education | Member-Secretary |

The Sub-Committees will hold at least 3 meetings to prepare detailed recommendations to be submitted by December 31, 2011 to the Chairman, Working Committee on ECCD, NFE and Primary Education, constituted with a view to prepare ICT in Education Master Plan.