Institute for Research and Strategic Studies of Nile Basin countries

The vision

Fayoum University aims to make this institute one of the best research centers specialized in both issues and problems of Nile Basin countries.

The message

It is a unique institute. Its approach is research according to the applied distinct techniques, through the subscription of more than one discipline in studying the issues of Nile Basin Countries, and suggests suitable solutions for these issues within team works and plan. It also execute training programs besides carrying out the joint researches for solving these problems.

Institute Goals

1. Improving Egyptian relationships with the Nile Basin Countries scientifically, culturally, socially, and economically.
2. Acquiring better understanding about African affairs in general and about the Nile Basin countries in specific.
3. Preparing up-to-date training programs and curriculums in variety of fields of research.
4. Creating a cadre of scientists and scholars majored in the issues of Nile Basin countries to raise living standards.
5. Establishing firm ties between the peoples of those countries and thus enhancing their feeling of belonging.
6. Providing variety services (search, consulting, and training) of Nile Basin countries in order to raise the scientific research level in these countries.

Chapter one:

General rules

Article (1)

Based on request of the institute council, Fayoum University grants the following degrees:

1. Diploma of water and soil.
2. Diploma of geomorphology and climate.
3. Diploma of population and economic resources.
4. Diploma of law and politics.
5. Diploma of geographic information systems (GIS).
6. Diploma of transportation studies.
7. Diploma of hospital management.
8. Diploma of agricultural development and food security.

Article (2)

Studying system

Studying system is credit hours. The academic year is divided into two semesters “each semester includes 15 weeks ”. There is a summer semester which is optional 8 weeks not including the period of exams. Diploma of geographic information systems (GIS), and diploma of hospital management differ from this system as they follow the quarterly system due to the nature of their curriculums.
**Article (3)**

**The credit hours:**
The credit hour is a studying measurement unit which determine the duration of each course compared with other courses. A credit hour equals an hour of a theoretical lecture per week, or “two or three” hours of practical or experimental exercises per week. It can also equal 4:5 hours a week of field activities throughout each semester.

**Article (4)**

**Time of Registration:**
Diploma programs are announced in August and January each year. Results are usually announced before starting the academic year. It is allowed for the institute council may identify additional dates for the post graduate studies enrollment based on what is required in order to achieve the main goal of the institute.

**Article (5)**

**Conditions of Registration:**
Students are registered in studying programs of the institute after completing all registration conditions and pay all the fees, besides fulfilling all the following conditions:

1. Awarded the Bachelor from any Egyptian University subjected to the universities regulating law or an equivalent certificate from Egypt or abroad.
2. Passing both acceptance and language tests. The result will be announced before starting the studying year.
3. Having the ICDL certificate for those who want to register for the geographic information system diploma (GIS).
Article (6)

University council determines specific fees for students who want to register for the diploma degree.

Article (7)

Studying duration

Duration of the diploma is one year; (the table in page 7 and what after it) clarify the curriculum distribution for each diploma and the number of credit hours for each curriculum per week.

Article (8)

Registration change:

It’s acceptable to change a student from a diploma to another after a recommendation of the diploma coordinator and after the acceptance of the institute council taking the following points in consideration:
   1. Registration conditions should be applied to the diploma which the student wants to enroll.
   2. Passing the supplementary requirement needed for the diploma which the student wants to enroll.
Article (9)

Stop registration

According to suggestion of the diploma coordinator, and the postgraduate studies committee, it’s permitted for the council institute, to stop a student registration (diploma degree) for one forward not previous year... in these conditions:

1. Recruitment: the student has to apply a request to stop his registration for the first three months of his recruitment duration, and provide all the proving documents.
2. Travelling abroad for certain conditions.
3. Illness
4. Delivery and child care.
5. Other cases accepted by the committee of research and postgraduate studies, also approved by the university council.

Article (10): Cancel registration

In these cases:

1. When the learner demands to cancel his registration.
2. If the learner does not have his degree throughout three years.
3. If the learner does not pay his scholastic fees.
4. The absence of the learner for an academic year without an acceptable excuse.
Article (11):

Learners Re-registration

In the case of cancelling the learner registration, he/she can request to re-register again according to the definite conditions.

Article (12)

It’s a must for learners to attend at least 70% of the credit hours in order to be allowed to attend the final exam. Otherwise, the learner is compulsory withdrawn from the curriculum, and this will be written in his/her certificate.

Article (13)

Diploma degree equals preliminary MA in condition of graduated with good degree.

Article (14)

Learners can be withdrawn from the curriculum after registration (before the end of the six\textsuperscript{th} week from the beginning of the first term, and the second week from the beginning of the summer term). In this condition, the credit hours of the curriculum will not be estimated in the grade point average (GPA) of the learner.

Article (15)

The institute council has the right to determine the minimum and the maximum number of learners registered in each diploma. The maximum ratio can be exceeded by only one curriculum in certain conditions.
Article (16)

Degree Granting

Learners who passed all credit hours and fulfilled all the required fees can be granted a certificate of the diploma degree. Certificates contain the basic information, the diploma, and the grade point average (GPA) of the learner.

Article (17)

Learners' Grades are calculated according to the cumulative average (GPA) as:

Cumulative Average = sum of (each curriculum points * its credit hours) then divide the result on (sum of the credit hours of each curriculum).

Curriculum points are calculated according to this table:

<table>
<thead>
<tr>
<th>Description</th>
<th>Points</th>
<th>Grade</th>
<th>Equalized Grade</th>
<th>Equivalent Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent Graduate Caliber</td>
<td>4</td>
<td>A</td>
<td>Excellent</td>
<td>points from 90 to 100</td>
</tr>
<tr>
<td>High Graduate Caliber</td>
<td>3</td>
<td>B</td>
<td>Very Good</td>
<td>Points from 80 to less than 90</td>
</tr>
<tr>
<td>Satisfactory Performance</td>
<td>2</td>
<td>C</td>
<td>Good</td>
<td>Points from 70 to less than 80</td>
</tr>
<tr>
<td>Dissatisfactory Level</td>
<td>1</td>
<td>D</td>
<td>Accepted</td>
<td>Points from 60 to less than 70</td>
</tr>
<tr>
<td>Fail</td>
<td>Zero</td>
<td>F</td>
<td>Fail</td>
<td>Less than 60 points</td>
</tr>
<tr>
<td>Incomplete Requirement</td>
<td>-</td>
<td>I</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Forced Withdrawal</td>
<td>-</td>
<td>FW</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Withdrawal</td>
<td>-</td>
<td>W</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Distance Learning

Article (18)
Distance learning management is established in the institute to broadcast the available educational programs in many available languages. This will help learners from outside Egypt to continue their studying, and to achieve their scientific degrees.

Article (19)
Exams and researches discussion should be only by personal attendance according to date determined by the institute. Learners can perform their exams electronically after fulfilling all the educational fees.

Article (20)
Each student should have an academic guide to ensure his academic performance. They can help learners in their scientific programs and the studying schedules. In addition to discussing problems of learners. Learners are distributed into the academic guides according to their specializations.
Chapter two

Requirements of the studying plan

1. First: Diploma of water and soil.
2. Second: Diploma of geomorphology and climate.
3. Third: Diploma of population and economic resources.
4. Fourth: Diploma of law and politics.

Studying system in these diplomas is followed the credit hours (learners should attend at least 30 credit hours).

The First Term

First: Compulsory Curriculum (3 credit hours)

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGC10</td>
<td>Geography of Nile Basin Countries</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DPE16</td>
<td>Population of Nile Basin Countries</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
</tbody>
</table>

\(^1\) Seven diplomas as follows: (1) agriculture, soil and water geography of water and soil diploma. (2) Natural geography of geographical and climate diploma. (3) population and economic geography of population and economic resources diploma. (4) Geographical information system. (5) Transportation and tourism geography of transportation researches and studies diplomas. (6) Management of hospital management diploma. (7) Law and political geography of law and political diploma.
Second: Optional Curriculums (9 credit Hours-Student chooses them under the supervision of his academic guide).

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWS12</td>
<td>Hydrology of Nile River</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DWS13</td>
<td>Systems of irrigation and drainage of Nile countries</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DGC14</td>
<td>Climate and plant territories of Nile Basin</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DLP15</td>
<td>Political boundaries of Nile Basin and their problems</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DPE16</td>
<td>Races of Nile Basin</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DWS14</td>
<td>Land Survey and Evaluation</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DWS15</td>
<td>Land Emergence and Formation</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
</tbody>
</table>

Total credit hours of the first term are 15 hours.
# Chapter two

**First: Compulsory Curriculums (12 credit hours)**

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGC11</td>
<td>Geography of Nile Basin</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DWS21</td>
<td>Nile River agreements</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>D111</td>
<td>Applied specialized project</td>
<td>6</td>
<td>--</td>
<td>6</td>
<td>Oral</td>
<td>100</td>
</tr>
</tbody>
</table>

Total credit hours of the second term are 15 hours.

Total credit hours of the diploma are 30 hours.
Second: Optional Curriculums (6 credit hours – students choose two curriculums according to the title of the diploma and coordinate with their academic guides)

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWS22</td>
<td>Soil Categories of Nile Valley</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DGC23</td>
<td>Geomorphology of River Nile.</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DLP24</td>
<td>River Nile water organizing projects</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DPE25</td>
<td>Economics of Nile Basin countries</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DMH0</td>
<td>Tropical diseases</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
<td>100</td>
</tr>
</tbody>
</table>

Applied specialized project= 6 credit hours. It can be presented by the end or the second term.

D⇒diploma, WS⇒water & soil, GC⇒geomorphology & climate, PE⇒population & economics, LP⇒law & politics.
Curriculum Description

(DGC10) Geography of Nile basin (3 credit hours)

- Definitions of river basins.
- Boundaries of the River Nile.
- Upstream and downstream countries.
- Basin topography.
- Climate and plant conditions of the basin.
- Economic resources and production factors.

(DWS12) Hydrology of the River Nile (3 credit hours)

- River system.
- Flooding volume and its seasons.
- Effective factors of the hydrological system.
- Ways to benefit from the water river and its projects.

(DWS13) Irrigation and drainage systems of Basin countries (3 credit hours)

- History of irrigation and drainage of Nile water.
- Development of irrigation patterns.
- Reflections of flood and dryness.
- Irrigation destructive methods.
- Applications.
(DGC14) Climatic and plant regions of Nile Basin (3 credit hours)
- Definition of climatic and plant regions.
- Classifying climatic and plant regions according to latitudes.
- Attributes of climatic regions.
- Attributes of plant regions.
- Factors affecting the formation of these regions.

(DLP15) Political boundaries of Nile Basin and their problems (3 credit hours)
- Political geography of Nile basin countries.
- History of borders demarcation of basin countries.
- Basics of demarcation and the effect of colonization upon it.
- Problems of political boundaries.

(DPE16) Population of Nile basin countries (3 credit hours)
- Distribution of Nile Basin population.
- Density of Nile Basin population.
- Factors of population growth of Nile Basin countries.
- Demographic structure of Nile Basin countries.
- Population immigration among Nile Basin countries.

(DWS21) Agreements of the Water River Nile (3 credit hours)
- History of Nile water demarcation agreements.
- Agreements, treaties and their amended laws.
- Suggestions of the upstream countries.
- Suggestions of the downstream countries.
- The effect of agreements on basin shares.
(DWS22) Soil classifications in Nile valley (3 credit hours)
- International demarcation of soil.
- Properties of soils in the valley.
- Geographical distribution of the valley soils.
- Production efficiency and agricultural style.
- Applications.

(DGC23) Geomorphology of Nile water.
- Emergence and development of the River Nile.
- River Nile in lakes plateau.
- River Nile in Ethiopian plateau (Alsupac, Al Azrak, Atbarah).
- White Nile- Ethiopian Nile- Egyptian Nile.
- The effect of water projects on river geomorphology.

(DLP24) Projects of organizing the river water (3 credit hours)
- Organizing and good use of the river water.
- Justice in distributing water resources in basin countries.
- History of dams and reservoirs along the river.
- Properties of the engineering projects along the river.

(DGC25) Economics of Nile Basin Countries (3 credit hours).
- An introduction about economic resources of Nile basin countries.
- Production patterns of the productive commodity sectors (agriculture, industry, and mining).
- Services sectors (transportation, electricity)
(DMH0) Economics of tropical diseases (3 credit hours).
- History of spreading diseases in Nile Basin countries.
- Influencing factors affected spreading diseases in tropical areas.
- Doctors' efforts in resisting and treating these diseases.
- Endemism and spreading of these diseases.
- Feasibility of using methods to resist these diseases.

(DGC11) Geography of Nile headwaters (3 credit hours)
- Lands and boundaries of Nile headwaters.
- Headwaters topography and its characteristics.
- Tropical headwaters.
- Abyssinian headwaters.
- Climatic conditions and characteristics of the rainfall.
- General human conditions of headwater countries.

(DPE16) Races of Nile Basin:
- History of human stability of Basin countries.
- Historical spreading of the African kingdoms.
- The most important propagation characteristics of population.
- Immigrations and relations between African races.

(DWS14) Land survey and evaluation (3 credit hours):
- The course aims to provide the necessary professional skills to survey land resources, besides its division and evaluation. In addition to benefit from maps, geographical information system and remote sensing of surveying operations.
(DWS15) Land emergence and formation (3 credit hours):

- The course aims to develop professional skills about lands and its formation, factors of this formation, its operations, lands’components, land sector and ways of land division.

**Fifth: Diploma of geographical information system (GIS).**

**First semester**

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGC10</td>
<td>Geography of Nile Basin</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS11</td>
<td>Mapping &amp; Survey</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS12</td>
<td>Geographic Information System1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS13</td>
<td>Remote Sensing1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS14</td>
<td>Geographic Databases</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS16</td>
<td>Programming &amp; Modeling</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
</tbody>
</table>

Total credit hours of the first term are 18 hours.
### Second semester

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPE16</td>
<td>Population of Nile Basin</td>
<td>3</td>
<td>--</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS21</td>
<td>Geographic Information System2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS22</td>
<td>Remote Sensing2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS23</td>
<td>Spatial Web Applications</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS24</td>
<td>Geographic Databases</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
<tr>
<td>DGIS15</td>
<td>Programming &amp; Modeling</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3hours</td>
<td>100</td>
</tr>
</tbody>
</table>

Total credit hours of the second term are 18 hours.

Total credit hours of diploma graduation are 36 hours.

*Topics of projects and library researches will be chosen from projects and researches that will be presented at the beginning of the first semester.*
Curriculum description

(DGIS11) Mapping and Survey (4 credit hours)

This course includes both theoretical and practical aspects as follows: an introduction about maps and their types, basics of mapping and representing data in computers, projection and GPS systems and basics of using global positioning by satellite devices. In addition to practical trainings about surveying and practical training in using Auto CAD program.

(DGIS12) Basis of geographical information systems (4 credit hours):

This course includes a general introduction to GIS, discussing characteristics of geographical data, representing data in computer systems, characteristics of digital and paper maps, characteristics of vector data and raster data, the ability to obtain spatial data, basic analysis of spatial data, basis of topographic modeling, data mapping output. The course also includes practical training by using variant group of GIS software such as: ILWIS, ARC GIS.

(DGIS13) Basis of remote sensing1 (4 credit hours):

This course presents a short introduction about physical background of remote sensing (RS), electromagnetic spectrum, the (RS) usage and history. In addition to reviewing the latest (RS) products of industrial commercial satellites, its characteristics, and fields of its applications. Besides, ways of collecting information about surface of the earth. This course also includes practical training on ways to get visible space, entering space visuals into GIS systems, ways to add coordinates and
correcting them, operations to improve the compound visuals, ways of processing visuals, basis of interpretations and classifications to analyze digital pictures using visual and computerize methods. Finally, it includes the practical training using space image processing programs.

(DGIS14) Geography database (3 credit hours):

This course includes a general idea about relational databases and its characteristics. It also includes geographical database characteristics. In addition to using geographical databases, practical training on making geographical databases, managing data of geographical databases, managing multiple users and their powers. Finally, it includes practical training on making geographical database files and links it with maps.

(DGIS15) Spatial statistics (3 credit hours):

This course includes an introduction about geographical statistics and its additional value. It also includes packing statistical geographical programs, molding the structure of spatial data, ways to collect samples, designing samples of spatial statistical analysis, preparing a Variogram model from points of spatial samples. This course also includes different kinds of Kriging, assessing efficiency of spatial predictions, making maps of wrong risk of spatial data.

(DGIS21) Programming & Modeling (3 credit hours):

This course includes an introduction about programming techniques of GIS system applications, theoretical and practical knowledge about spatial algorithms that are more popular in GIS system. Moreover, it includes programming using conditioned implementation structures, mechanisms of implementing Loops, patterns of Visual Basic (VBA)
applications, spatial concepts and algorithms of all vectored data and matrix data. In addition, VBA applications of (Arc GIS) programs and using Arc Objects. This course also includes an introduction to (Visual Basic.net), writing applications of Arc GIS system, and writing Scripts of GIS systems.

This course requires studying curriculums of geographical databases, and (Arc GIS) program before attendance.

(DGIS22) Geographical information Systems2(4 credit hours):

This course includes studying the advanced GIS techniques and their different analysis. It presents a mixture of theoretical and practical applications on GIS programming systems, adding coordinates to maps, assessing maps efficiency, different analysis of GIS systems, and different models of data completing operations. It also includes establishing geographical databases and survey by using SQL, featured and thematic maps, operations of superposition, and nearby operations. Moreover it includes models of popular Scripts, and operations of communication and network analysis.

(DGIS23) Remote Sensing2 (4 credit hours):

This course includes an introduction about techniques of processing spatial visuals, efficiency of adding coordinates, Mosaic making, ways to improve and clear images, ways to classify and categorize images, and produce 3D images. It also includes tracking changes, applications of hyper spectral images, applications of Radar images, and applications of natural resources management. In addition , the practical training by using (Imagine ERDAS, ENVI) programs.
(DGIS24) Geographic Web Applications (3 credit hours)

This course includes an introduction to kinds of spatial web services, spatial web (users and clients), and techniques and standards of distributing geographical data and maps through the internet. This course also includes practical trainings on methods of making map services on the internet by using GIS programming systems specially (ARC GIS). It is necessary for learners to study geographical database before attendance.

(DGIS25) Group Project (4 credit hours)

This course includes an introduction to designing and planning practical group projects of GIS, identifying research problems, identifying required needs, and data collection, producing and processing data. Moreover, it includes formulating conclusions and recommendations, viewing references, viewing the project and dealing with public, and executing professional activities of the project as a one integrated team.

(DGIS26) Individual Project (3 credit hours):

This course includes an introduction to how to collect data, data processing, preparing and implementing reports, project introduction, identifying project goals, and planning to implement project tasks. It also includes revising previous researches, data analysis, mixing geographical information system (GIS) and remote sensing (RS) together, preparing and explaining the preliminary maps, and designing geographical project database. In addition adding the field verification plan and data collection. It also includes choosing operations and convenient analysis, result analysis, and constructing final maps.
Moreover it includes preparing the completing technical project report, presenting and communicating skills, and development of self-confidence during presentation.

Six\textsuperscript{th}: A diploma of transportation researches and studies of Nile Basin countries:

The institute aims to graduate cadres capable of managing and operating transportation superstructure and infrastructure by land, river, maritime, rail, air, and pipelines. It also includes assessing air transportation projects and presenting suggestions about the efficient economic operating. Besides, carrying out researches specified in the fields of transportation and traffic in Nile basin countries. All of these efforts are to achieve excellence locally, regionally, and internationally in the specification of transportation researches and studies including the economic and the administrative aspects.

Some of our goals are as follows:

1. Graduate Egyptian and African cadres who have the ability to assess air transportation projects and present suggestions of the efficient economic operating.

2. Preparing high skilled cadres who are capable of managing and operating superstructure and infrastructure transportations of Nile basin countries (land, river, maritime, rail, and air transportations).

3. Providing skilled workers who are capable of working in air hospitality fields, and can use electronic reservation methods using the internet, and all kinds of land services in Nile basin countries.
4. Providing skilled workers in the field of managing passengers’ and goods (Kargo) traffic fields in Nile Basin countries.

5. Providing cadres specified in the fields of international arbitration, negotiation of the international trade fields which related to land and maritime transport such as selecting tracks, strategic agreements and the international cooperation, air and maritime transportation crises, and how to manage them in Nile Basin countries.

6. Prepare a well qualified workforce specialized in determining the pricing strategies under certainty and uncertainty.

7. Qualifying abilities to build operating strategies to cope with the requirements of sustainable development.

8. Providing abilities for developing an innovative work environment concerning innovation requirements and concentrating on customer services in both quality and environmental requirements, during transportation crisis of Nile Basin countries.

9. Improving the quality of transportation services according to the international conditions in both operating processes of moving units and transport infrastructure considering (managing and operating aspects) of Nile Basin countries.

10. Providing workers capable of managing fleet accounting, operating and building information system associations among operate, supply, and maintenance managements of Nile Basin countries.
**The first semester**

1- **Compulsory Curriculum (10 credit hours)**

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGC10</td>
<td>Geography of Nile Basin</td>
<td>--</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
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</tr>
<tr>
<td>DT11</td>
<td>Treaties of Transportation Crisis</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DT12</td>
<td>Information System and Transportation Technology</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>3 hours</td>
<td>100</td>
</tr>
<tr>
<td>DT13</td>
<td>Economics and Geography of Transportation</td>
<td>--</td>
<td>--</td>
<td>3</td>
<td>3 hours</td>
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</table>
## 2- Optional Curriculums (2 credit hours)

<table>
<thead>
<tr>
<th>Curriculum Code</th>
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<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
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</thead>
<tbody>
<tr>
<td>DT17</td>
<td>Touristic Transportation</td>
<td>--</td>
<td>--</td>
<td>2</td>
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<td>DT18</td>
<td>Agreements of Transportation and Traffic</td>
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<td>DT19</td>
<td>Funding of Transport Infrastructure of Nile Basin Countries</td>
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Total hours of the first term are (12 credit hour)
**The second term**

1- **Compulsory Curriculum (18 credit hours)**

<table>
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<th>Exam Duration</th>
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<tr>
<td>DPE16</td>
<td>Population of Nile Basin</td>
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<tr>
<td>DT21</td>
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<td>--</td>
<td>2</td>
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<tr>
<td>DT22</td>
<td>Business Administration of Transportation Companies</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>3hours</td>
<td>100</td>
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<tr>
<td>DT23</td>
<td>Transportation Planning</td>
<td>--</td>
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<td>2</td>
<td>3hours</td>
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<tr>
<td>DT24</td>
<td>Overall Quality of Transportation Services</td>
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<td></td>
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<tr>
<td>DT29</td>
<td>Applied Project</td>
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<td></td>
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## 2- Optional Curriculums (2 credit hours)

<table>
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<th>Curriculum Code</th>
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<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT26</td>
<td>River Transportation</td>
<td>--</td>
<td>--</td>
<td>2</td>
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<tr>
<td>DT27</td>
<td>Maritime Transportation</td>
<td>--</td>
<td>--</td>
<td>2</td>
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<tr>
<td>DT28</td>
<td>Business Management Services of Air Transportation</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>3hours</td>
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</tr>
</tbody>
</table>

Total credit hours of the second term are (18 hours).

Total diploma graduation hours are (30 hours).
Curriculum description

(DT11) Management of Transportation Crisis (2 credit hours)

This course includes: introduction, safety loading and uploading cargoes, loading and insuring dangerous cargoes, calculating balancing and stressing efforts during loading cargoes, emergency plans and training on them, controlling of emergency situations, first-aid emergencies, training on managing crowds and guiding passengers, finally training on the international rules of security procedures concerning the field of transportation.

(DT12) Information System and Transportation Technology (2 credit hours)

This course includes: introduction, databases of transportation networks, rules governing trading information about transportation, information networks about linking Nile Basin countries together, and finally the role of satellites in organizing transportation movement concerning Nile Basin countries.

(DT13) Economics and Geography of Transportation (3 credit hours)

This course includes: introduction, the natural resources which affect transportation movement concerning (human, political, economic and demographic factors). It also includes the relation of (internal transportation with traffic), (heavy means of transportation with urbanism centers), and (land, river, maritime, rail and air means of transportation) of Nile Basin countries.
(DT17) Touristic Transportation (2 credit hours)
This course includes: introduction, touristic transportation, transportation sectors of Nile Basin countries, demand analysis on touristic transportation of these countries, display analysis of touristic transportation services, finally means of touristic transportation and pricing it in these countries.

(DT18) Treaties of Transportation and Traffic (2 credit hours)
This course includes: introduction, history of transportation treaties, standards of transportation agreements, institutes and organizations responsible for taking into consideration the international agreements about transportation, regional problems related to (land, maritime, rail, and air means of transportation of Nile Basin countries, finally the regional agreements of some or all of these countries.

(DT19) Funding of Transport Infrastructure of Nile Basin Countries (2 credit hours)
This course includes: introduction, the institutional role of states in taking into consideration costing and supporting transportation, international and national funding institutions, maintenance courses and updating different transportation networks, and funding problems of Nile Basin countries.
(DT21) Engineering of Transportation (2 credit hours)

This course includes: introduction, planning models, predicting models by transferring (aims, simple models, complex models, and models dimensions), combining models of flights, numbering and coding the network, resisting transition, distributing flights and gravity models, personalization (distribution curves), and applications.

(DT22) Business Administration of Transportation Companies (2 credit hours)

This course includes: introduction, terms and management concepts of transportation companies, activities of transportation companies in Nile Basin countries (acts of clearing, unloading, and transporting via ports and airports), procedures for having permissions of transportation formation companies and contracts in transportation sector, improving administrative skills and human resources management of transportation sectors in Nile Basin countries.

(DT23) Transportation planning (2 credit hours)

This course includes: a site of demanding analysis of transportation planning, trips generating theory, basis of analyzing the detailed choice, analysis of choosing the trip aims, defining the demanding technique and available data and predicting considerations.

(DT24) Overall Quality of Transportation Services (2 credit hours)

This course includes: the quality definitions, overall quality definitions, fields of quality management, obstacles facing implementing quality management, quality requirements (auditing, calibration, quality
checking, low percentage of errors, and accelerate the beneficiaries services performance), customer satisfactory, customer needs and design specifications, strategic orientation concerning beneficiaries, planning quality strategies in transportation sector, transport integrated services, management of integrated transportation and its administrative dimensions, improving the quality of passengers and goods transportation services, and finally training and upgrading human resources quality.

(DT26) River Transportation (2 credit hours)

This course includes: an introduction, characteristics of water transport system, the network, general characteristics about navigation network, characteristics of water transport network in Nile Basin countries, river transport fleet and transport energy, calculating the amplitude and customizing fleet on the network, the technical efficiency of river transportation fleet, the efficient use of fleet energy, and obstacles facing river transportation in Nile Basin countries.

(DT27) Maritime Transportation (2 credit hours)

This course includes: an introduction, maritime shipping, ships operating and ports security, sailing, the international sailing lines, ships types (goods, passengers, and ferries), maps and waterways, geographical coordinates system, planning ports and calculating the amplitude, maritime legislations, and the advanced navigation.
(DT28) Business Management Services of Air Transportation (2 credit hours)

This course includes: an introduction, air transportation and its economic importance of Nile Basin countries, services of air transportation companies, business administration of formatting the air transportation companies, symbol managing of air transportation companies at the level of Nile Basin countries, and finally the globalizing perceptions of managing transportation companies and its effect on the economics of Nile Basin countries.

(DT29) Applied Project (5 credit hours)

Students prepare applied projects which should have a relation with one transportation problem of Nile Basin countries under the supervision of the institute teaching staff. These projects will be discussed orally by the end at the academic year.
**Seventh: Diploma of hospital management and health care services**

**First: The Compulsory curriculums (30 credit hours) divided on two semesters**

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Semester</th>
<th>Theoretical</th>
<th>Practical</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMH1</td>
<td>Principles of Management in Health care Organization</td>
<td>First</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>DMH2</td>
<td>Organizational Behavior in Health care</td>
<td>First</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>DMH3</td>
<td>Introduction to Accounting and Finance in Health care Organization</td>
<td>First</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>DMH4</td>
<td>Marketing Health care services</td>
<td>First</td>
<td>2</td>
<td>2</td>
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<td>3</td>
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</tr>
<tr>
<td>DMH5</td>
<td>Biostatistics</td>
<td>First</td>
<td>2</td>
<td>2</td>
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<td>3</td>
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</tr>
<tr>
<td>DMH6</td>
<td>Human Resources Management and Health Care Organizations</td>
<td>Second</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>100</td>
</tr>
<tr>
<td>DMH7</td>
<td>Quality System in Health care Organization</td>
<td>Second</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>DMH8</td>
<td>Health Records and Databases</td>
<td>Second</td>
<td>2</td>
<td>2</td>
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<tr>
<td>DMH9</td>
<td>Health Care Strategic Management</td>
<td>Second</td>
<td>2</td>
<td>2</td>
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<tr>
<td>DMH10</td>
<td>Applied Research Project</td>
<td>Second</td>
<td>2</td>
<td>2</td>
<td>3</td>
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</table>

*Total hours for graduation are 30 credit hours*

*All subjects have practical parts related to Nile Basin countries (a part from the credit hours).
*Each two practical hours equal one theoretical hour.*
**Educational aims of the program**

The program aims to:

- Equip students with a broad range of management approaches covering various healthcare environments.
- Allow students to critically assess healthcare management changes on a wide scale of political, social and organizational changes.
- Enhance students’ research abilities by providing a clear research methodology study that allows them to conduct managerial and organizational research.
- Promote students’ ability in informational and problem solving as applying to healthcare management.
- Promote students’ abilities to objectively analyze various economic, human and ethical dilemmas in healthcare.
- Provide students with the research skills that allow them to objectively criticize and analyze various research approaches.

**Program structures**

The Program comprises 30 weeks, 2 semesters. The Program is made up of the following elements:

- Two semesters including nine compulsory modules per semester.
- In the first semester the modules will be:
  - Principles of management in health care organization
  - Organizational behavior in health care
  - Introduction to accounting and finance in health care organization
  - Marketing health care services
  - Biostatistics
In the second semester the modules will be:
- Human resources management in health care organization
- Quality system in health care organization
- Health records and data bases
- Healthcare strategic management
- Applied research paper

**Admission Requirements**

The award is pertinent for professionals from the Health Sector with current and potential managerial role. Prospective students should hold an undergraduate degree of medicine with one year experience in health care management related fields. Graduates of business management with proved three years experience in health care organization can be considered for admission and preferably two to three years professional experience in the areas listed above. Actual admission to the program may require the candidate to exhibit higher levels of qualifications. The final decision on admission will be at the discretion of the Program Director or other delegated individual.

**Curriculums description**

**(DMH1) Principles of Management in Health care Organization (3 credit hours)**
- Management process.
- Usage of information and documents.
- Leadership.
- Projects and operations management.

**(DMH2) Organizational Behavior in Health care (3 credit hours)**
- Applied of economic concepts in heath field.
• Financial management of health care facilities.
• Health budget.

(DMH3) Introduction to Accounting and Finance in Health care Organization (3 credit hours)
• Expanding the range of availability of family planning services related to mobile clinics.
• Upgrade the level of services' providers to obtain high level services.
• Expanding the concept of reproductive rights among community categories and decision makers.

(DMH4) Marketing Health care services (3 credit hours)
• The definition.
• Applied and theoretical importance.
• Stages of managing information systems and the international standards.
• Application on one of Nile Basin countries.

(DMH5) Biostatistics (3 credit hours)
• Statistical techniques.
• A comparative study of health survey techniques in Nile Basin countries concerning the international standards for achieving them.

(DMH6) Human Resources Management and Health Care Organizations (3 credit hours)
• An introduction about management and its techniques.
• Management information systems.
• The medical team.
• Communications.
• Decision making.
• Conflict management.
• Selected models from some institutions in Nile Basin countries.

(DMH7) Quality System in Health care Organization (3 credit hours)

• The concept of quality management.
• Egyptian standard specifications of hospitals.
• Monitoring the service performance and its level.
• Controlling over the safety administration procedures and the extent of its conformity to the instructions and regulations.
• Monitoring all elements of hospital administrative process.
• Monitoring a specific project such as: establishing a new section, or establishing a specialized medical center.
• Applications on some Nile Basin countries.

(DMH8) Health Records and Databases (3 credit hours)

• Information systems and its application on the field of health care.
• Health records.

(DMH9) Health Care Strategic Management (3 credit hours)

• Principles of strategic planning.
• Health care strategies.

(DMH10) Applied project (3 credit hours)
Diploma of agricultural development and food security of Nile Basin Countries

1. Compulsory Curriculums Divided into two terms

First: The first semester

<table>
<thead>
<tr>
<th>Curriculum Code</th>
<th>Curriculum Title</th>
<th>Theoretical Hours</th>
<th>Credit Hours</th>
<th>Exam Duration</th>
<th>Final Result</th>
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<tr>
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<td>Geography and Population of Nile Basin countries</td>
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<td>Human Development and Agricultural workers in Nile Basin Countries</td>
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Second: The second semester

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<th>Curriculum Title</th>
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<th>Credit Hours</th>
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<td>Preparing and Analyzing Common Agricultural Projects between Nile Basin Countries</td>
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<td>Operation Researches</td>
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## 2-Optional Curriculums Divided into two terms

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<td>DadO 10</td>
<td>Economics of Animal Production of Nile Basin Countries</td>
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<td>Economics of Plant Production of Nile Basin Countries</td>
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<td>Marketing and Agricultural Foreign Trade of Nile Basin Countries</td>
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<td>Agricultural Funding of Nile Basin Countries</td>
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<td>Legal Aspects for Promoting Cooperation between Nile Basin Countries</td>
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</table>
Curriculums Description

Geography and Population of Nile Basin countries

- Definitions of river Basins their boundaries.
- Upstream and downstream countries.
- Topography of Nile Basin countries.
- Climate and botanical conditions of the Nile Basin.
- Distribution of Nile Basin population.
- Factors of population growth of Nile Basin countries.
- Demographic structure of Nile Basin countries.
- Population immigration among Nile Basin countries.

Economics of Natural (water and earth) Resources of Nile Basin Countries

- Definite concepts, types, and partitions about Natural (water and earth), and Environmental Resources.
- Demanding for natural resources.
- Natural resources management.
- Sustainability problem in using the natural resources.
- Economics of natural resources protection.
- Policies for green economics encouragement.
- The effect of changing climate on using natural resources.
- The efficiency of using the natural resources.

Sustainable agricultural development of Nile Basin Countries

- Development (concepts and theories).
- Development indicators in Nile Basin Countries.
- The role of agricultural sector in general.
• Continuous development and balancing of environmental, economic and social developments.
• Analyzing the effect of economic policies on developing the agricultural sector.
• The effect of foreign trade policies on developing the agricultural sector.
• A matrix of analyzing agricultural policies.

**Human development and agricultural workers of Nile Basin Countries**

• Historical development of human resources management.
• Jobs for human resources management.
• Analyzing and assessing jobs.
• Human resources planning.
• Workers performance assessment.
• Training and developing human resources.
• Human resources development.
• Special issues about human resources development in Nile Basin Countries.
• Types of agricultural workers.
• Unemployment and its types.
• Development of the agricultural machine in developing countries.
• Obstacles of insertion the agricultural machine in Nile Basin Countries.
• Expansion ways in using the agricultural machine.
• Estimate needs and abilities of human, animal and automatic works.

**Agricultural prices and food security of Nile Basin countries:**

• Basic concepts, the importance of internal and pricing policies.
• Economic fundamentals used to identify prices especially agricultural.
• Reasons and effects behind changing the prices of agricultural products.
• Global prices and its relation to agricultural products local prices.
• Economic cycles and its relation to the agricultural prices.
• The Wide theory.
• Markets equilibrium.
• Factors affecting demanding on food commodities.
• Factors affecting supplying food commodities.
• Price indices.
• Time series.
• Predicting the agricultural prices and (consumption, productive) decision making.
• The concept of food security.
• Policies supporting food security.
• Global prices and its effect on food security.
• Standards of food insecurity, and ways for facing it.

Preparing and analyzing common agricultural projects between Nile Basin Countries
• The most important concepts about projects feasibility Study.
• Project types.
• Project cycles.
• Types of feasibility studies.
• Market analysis, project funding structure and ways for loan payment.
• Funding analysis and projects assessment.
• Projects economic analysis.
• Projects sensitivity analysis.
• Solve the inflation problem during projects assessment (under risk).

Operation Researches:
• Special concepts.
• Goals.
• Different fields of operation researches.
• The importance of statistical programs used in achieving operation researches.
• Using models of multi regression analysis.
• Making analysis models.
• Using “path program” in operation researches.
• Obstacles facing operation researches.
• Linear programming.
Transportation and privatization problems.

**Economics of fish wealth and aquaculture of Nile Basin Countries**

- The importance of fish production at the level of Nile Basin countries.
- Principles of fish production economics.
- Figures of fish production functions.
- Production efficiency and its relation to the changing of fish production technology.
- Cost functions in long and short term.
- Analysis of the best production volume and the greatest profit volume.
- The best farm behavior.
- Balancing of institutions in local markets.
- Standards of Production efficiency in fish production field.
- Practical examples of fish production field in Nile Basin countries.

**Economics of animal production of Nile Basin Countries:**

- The importance of animal production for economy at the level of Nile Basin Countries.
- Principles of animal production economics.
- Figures of animal production functions.
- Production efficiency and its relation to the changing of animal production technology.
- Cost functions in long and short term.
- Analysis the best production volume and the greatest profit volume.
- The best farm behavior.
- Balancing of institutions in local markets.
- Standards of Production efficiency in animal production field.
- Practical examples of animal production field in Nile Basin countries.

**Economics of plant production of Nile Basin Countries:**

- The importance of plant production for economy at the level of Nile Basin Countries.
- Principles of plant production economics.
• Figures of plant production functions.
• Production efficiency and its relation to the changing of plant production technology.
• Cost functions in long and short term.
• Analysis the best production volume and the greatest profit volume.
• The best farm behavior.
• Balancing of institutions in local markets.
• Standards of Production efficiency in plant production field.
• Practical examples of plant production field in Nile Basin countries.

**Marketing and Agricultural Foreign Trade of Nile Basin Countries:**
- The concept of agricultural marketing, and its importance.
- Researches and syllabus of agricultural marketing.
- Mediators and markets of agricultural products.
- Jobs and marketing services.
- Margins and production efficiency.
- Elements of blend marketing.
- How to put a marketing plan.
- Marketing researches.
- Developments of the international economy.
- The definition of economic blocs.
- Current problems about African agricultural economy.
- Agricultural cooperation between Nile Basin Countries.
- Effect of institutions and economic blocs on the agricultural foreign trade in Nile Basin Countries.

**Agricultural funding of Nile Basin Countries:**
- Definition of the agricultural funding, and its relation to other sciences.
- Classifying agricultural loans, guarantees, and supervising them.
- Different ways to calculate profits.
- Different ways to repay loans.
- The current funding structure of agricultural sector in Nile Basin Countries.
• Roles of politics and credit institutions in achieving Nile Basin countries agricultural goals.

Management of Agricultural projects in Nile Basin Countries

• An introduction about agribusiness system and its functions.
• Planning function.
• Organizing and controlling functions.
• Orientation function.
• Assessment function.

Management of water resources of Nile Basin Countries

• Integrated management (importance and definitions).
• Demanding and supplying on water resources, and its estimation.
• Water balancing and planning environmental and water resources.
• Management of water resources (economic, social and political aspects).
• Irrigation systems and water management.
• Efficiency of using water resources.
• Legislation and specified strategies for managing Nile resources.

Legal Aspects for promoting cooperation between Nile Basin countries

• The importance of studying the legislations and agricultural laws in the Nile Basin countries.
• The Evolution of the legislations and agricultural laws in the Nile basin Countries.
• The suitability of agricultural legislations in comparison with international agricultural agreements.
• Some models of bilateral and multilateral agreements between the African countries with regard to the situation of the Nile Basin countries in these agreements.
Agricultural policy of Nile Basin countries:
- Development of the global economy.
- Nature of the economic relationships.
- Basis of the international exchange.
- Identifying the economic blocks.
- The current problems of the international economy.
- The Arab common market.
- Egyptian European participation.
- Economic international organizations.
- International monetary fund.
- The entry strategy to global markets.
- The effect of economic blocks and organizations on the foreign trade of Egyptian agricultural commodities.

Economics of mechanization of Nile Basin countries:
- Goals of the agricultural machinery insertion in Nile Basin countries.
- Obstacles of agricultural machinery insertion in Nile Basin countries.
- Estimating of needs and skills of three of human, animal and mechanical works.
- Economic assessment of the agricultural machine.

Chapter three
Article (21)
Applied everything included in this statute from universities regulating laws, its updated executive statute, and other related laws adopted by the state.

Article (22)
According to this statute, the institute has the permission to establish new diplomas and other scientific degrees (Master, PHD) after the approval of the institute council, university postgraduate council and the university council. The institute also can upgrade any curriculum mentioned in this statute.

Chapter four
Master and Ph.D. degrees

Article (23)
The institute accepts registration to both MA and PDH degrees for students graduated from any Egyptian university or what equals it from any other university. In condition that students must pass any institute diploma successfully in a specification commensurate with their specification in the first academic stage.

Article (24)
MA or PHD registrars should be fluent in English or French as they must pass an oral or written exam, or passing the TOEFL exam (not less than 500 points). Students who graduated from English or French
departments are exempted from these exams; also they can be exempted from some curriculums they had studied.

Article (25)
It is required for MA or PHD registrars to register in a topic related to the Nile Basin and approved by the institute council. The institute specifies supervisors from the institute professors (from the university or outside it if necessary). It is permitted to have numerous supervisors, and instructors can be included. In all cases any thesis should be supervised by only 3 members including a major supervisor.

Article (26)
Students must pay the educational fees to have the regularity institute card.

Master degree

Article (27)
Students who passed the diploma exams with at least good estimate can register the master degree; they can register after praising of institute instructors about the specialty of research.

Article (28)
Students present the proposal about Nile Basin countries issues (geographical aspects, humanitarian or historical or ethnic heritage). The institute is considered a standard model of Master’s proposal which includes: the title, its importance, view of literature, research limitations, its methods, tools and hypothesis. Seminars are usually held before students’ registration.

Article (29)
Proposals are usually presented to the institute council which is responsible for suggesting supervisors. It is permitted to have a supervisor from outside the university, and then a seminar is hold to discuss the research proposal. The proposal can be modified if necessary after its discussion.

**Article (30)**
The minimum amount of time for preparing a thesis is at least one year starting from the approval date of the institute council and the committee of graduate studies and not more than four years. The fourth year is an exception after the agreement of the institute council.

**Article (31)**
Students study curriculums related to the topic of the thesis no more than 12 hours (4 curriculums), after the agreement of the institute council and taking in consideration opinions of the supervisors.

**Article (32)**
Students (non-graduated from the institute) can enroll the master degree in condition that they could pass some basic curriculums which are necessary of Nile Basin (natural, populated, political, and economic) geography field. Passing exams of these curriculums in the first year is a must to continue the registration.

**Article (33)**
Students (non-graduated from the institute) should present the first university certificate, a diploma or a preliminary certificate, birth certificate, and 6 recent photos.

**Article (34)**
The seminar should be held before finishing the thesis and before the final printing. The institute’s students, instructors and at least one from the supervisory commission (for defining the topic and its results)
can attend it. It is permitted to exempt some students who don’t live in Cairo from it.

Article (35)
The master degree is awarded to students with one of the following estimations: excellent, very good, good, acceptable. Students who get the acceptable estimation can’t register for PHD degree.

Article (36)
The excellent theses which contribute in solving local or regional Nile Basin problems can be published on the university expense on condition that the discussion committee agrees on it. The copyright is the institute private property after rewarding the degree. But if the thesis hasn’t been published through the institute, it’s owner has the right to publish it after being revised through the institute with referring to the name of the institute and the university as a granter of the scientific degree (MA or PHD).

PHD degree

Article (37)
Students who have been already rewarded the master degree can register in the PHD degree in one of the institute available specifications of geographical fields (natural, humanity, political, economic ...etc). In condition that the thesis is concerning about the
Nile Basin countries or its geographical, continental or international territory included the specialized international organizations.

**Article (38)**
Students should present their university degrees, diploma or MA certificates and certified lists of curriculums they had studied.

**Article (39)**
Students are accepted in PHD programs after the agreement of the institute council. The institute council has the permission to add some other curriculums in the field of Nile Basin geography (humanity, economic, or politic), it becomes a must to register a thesis.

**Article (40)**
After the institute council agreement, students can present their theses. The institute defines a supervisor on the thesis (no more than three supervisors).

**Article (41)**
A seminar is usually held in the institute to present the thesis by the attendance of the institute students. According to the seminar, any modifications through the seminar should be taken in consideration or register the student's research if there isn't any modifications.

**Article (42)**
Students should complete the thesis within at least two years and not more than five years. If it is necessary to extend this period, it will be extended for no more than one year.
Article (43)
It is permitted to register in PHD program after having the master degree from any university subjected to the university supreme council. Topics should be related to Nile Basin issues.

Article (44)
Students from Nile Basin countries (not Egyptians) can register in both MA and PHD degrees. All the previous condition should be applied on them, complete the thesis under the institute's supervision without the student's attendance on the condition that the student must stay in Egypt throughout the six months preceded the discussion.

Exam System

1-Master degree

Article (45)
After finishing the thesis preparation, the supervisor writes a report to the institute of research and higher education which identifies that the student has finished his thesis and it is ready for the discussion.

Article (46)
The institute council suggests the discussion committee and assessing the thesis by the committee members and two other members (including the supervisor). It is acceptable to include more than one supervisor in the discussion (not less than assistant professors), and they will only a single vote.

Article (47)
Members of the committee present single reports about thesis's validity of discussion before defining the discussion date. In the case of lack of validity, all necessary procedures should be done in order to be
ready for discussion. These procedures must be certified from the institute council or authorized from the institute members. Then the thesis should be presented again upon the institute council to approve its validity.

**Article (48)**
After finishing the validity reports, the institute indentifies the discussion date. The student is committed to apply all necessary modifications which were required through the discussion. The main supervisor approved these modifications before certifying the degree from the institute council.

### 2-Ph.D. degree

The institute council forms a discussion committee and assessing it after finishing the dissertation. It must be approved by the supervisor. The committee consists of two specialist professors in the field of the dissertation, and it is a must to have a supervisor from outside Fayoum University.

**Article (49)**
The dissertation is usually sent to the committee to determine its validity for the discussion according to single reports included any necessary notes. Students should accomplish all these modifications which should be done under the supervision of the supervisor.

**Article (50)**
PHD degree is granted with one of these estimations: first class honors, second class honors, or Doctorate degree (Ph.D).
Fields of MA and P.HD registration

Article (51)
All research related to degrees granted by the institute are diploma, MA, and P.HD. These degrees should be related to Nile Basin fields and its countries. These fields can be as follows:

2. Political problems and boarders problems between Nile Basin countries.
3. Regional and international relations and agreements between Nile Basin countries.
4. Institutes of public benefit, services, and transportation of Nile Basin countries.
5. Climatic, ideological, and hydrological conditions of Nile Basin countries.
6. Problems of minorities, and spreading language and tribal groups' cross-boarders of Nile Basin countries.
   *It is permitted to establish other fields approved by the institute council.

Article (52)
The article no.49 for year 1972 which regulates universities affairs is applied to all Ph.D. and MA students what isn't stated in this document regarding registration and/or cancelation.