# বাংলাদেশ পানি উনুয়ন বোর্ড

#### BANGLADESH WATER DEVELOPMENT BOARD

পরিচালকের কার্যালয় কর্মচারী উন্নয়ন পরিদপ্তর,বাপাউবো রহমান চেম্বার (১০ম তলা) ১২-১৩ মতিঝিল বা/এ, ঢাকা-১০০০ ফোনঃ ৯৫৮৮৪৫৮, ৯৫৫০৯৩৭ (ফ্যাক্স)। ই-মেইলঃ dir.staff.bwdb@gmail.com



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স্মারক নং-৪৩৫-পাউবো(কউ)/ডি-৫(৮ম খন্ড)/২০১৮

তারিখঃ --- শ্রাবণ ১৪২৫বঃ ০৯-০৮-২০১৮ খ্রীঃ

# <u>'সিলেবাস (Syllabus) সম্পর্কিত সংশোধিত দপ্তরাদেশ'</u>

বাংলাদেশ পানি উন্নয়ন বোর্ডের বিভিন্ন ক্যাডার/শ্রেণীগুচ্ছের নবম গ্রেডে কর্মরত কর্মকর্তাগণের ৫৮তম বিভাগীয় পরীক্ষার সিলেবাস (Syllabus) অত্র দপ্তর স্মারক নং-৪১৮; তারিখঃ ০৭-০৮-২০১৮ মোতাবেক জারী করা হয়। উক্ত স্মারকে প্রকাশিত সিলেবাস সংশোধন করতঃ বিভাগীয় পরীক্ষার সংশোধিত সিলেবাস (Updated Syllabus) এতদ্বারা জারী করা হলো। বিভাগীয় পরীক্ষার ক্ষেত্রে বর্ণিত Updated Syllabus অনুসরনের জন্য সংশ্লিষ্ট সকলকে অনুরোধ করা হলো।

০২। মহাপরিচালক মহোদয়ের অনুমোদনক্রমে এ আদেশ জারী করা হলো।

(মোঃ আসাদুজ্জামান)

কর্মচারী উন্নয়ন পরিদপ্তর, বাপাউবো, ঢাকা।

স্মারক নং-৪৩৫/১(৫০)-পাউবো(কউ)/ডি-৫(৮ম খন্ড)/২০১৮

তারিখঃ ------০৯-০৮-২০১৮ খ্রীঃ

| সদয় | অবগতির/অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুলিপি প্রেরণ করা হলোঃ                             |
|------|--|
| ١٤   | প্রধান প্রকৌশলী/অতিরিক্ত প্রধান প্রকৌশলী/প্রধান  |
| থ    | তত্ত্বাবধায়ক প্রকৌশলী/প্রকল্প পরিচালক/পরিচালক/সচিব/অধ্যক্ষ বাপাউবো ।                                |
| ৩।   | সি এস ও টু মহাপরিচালক, বাপাউবো, ঢাকা।  |
| 8    | নিৰ্বাহী প্ৰকৌশলী  |
| œ۱   | সিস্টেম এনালিষ্ট, আইসিটি সেল, বাপাউবো, ঢাকা ( <b>ওয়েব সাইটে প্রকাশের জন্য অনুরোধ করা হলো</b> )।     |
| ৬।   | উপ-পরিচালক, ঢাকা আঞ্চলিক হিসাব কেন্দ্র, বাপাউবো, ঢাকা।   |
| ۹1   | ব্যক্তিগত সহকারী, অতিঃ মহাপরিচালক (প্রশাসন/পরিকল্পনা/অর্থ/পশ্চিম রিজিঃ/পূর্ব রিজিঃ), বাপাউবো, ঢাকা । |
| ъl   | মাস্টার কপি/নথির কপি।  |
| ৯।   | জনাব   |

(মোঃ মতিউর রহমান)

নির্বাহী প্রকৌশলী (নিঃ ও পঃ) (আঃদাঃ) কর্মচারী উন্নয়ন পরিদপ্তর, বাপাউবো, ঢাকা।

# ৫৮তম বিভাগীয় পরীক্ষার সংশোধিত সিলেবাস (Updated Syllabus) এর সূচীপত্র/সার-সংক্ষেপঃ

| ক্র | ক্যাডার/পদের নাম                    | পরীক্ষার নাম |           | পূर्नभान (नम्त्र)                       | মন্তব্য       |
|-----|-------------------------------------|--------------|-----------|---|---------------|
| নং  |                                     | পার্ট        | পেপার     | 100 100 100 100 100 100 100 100 100 100 |               |
| ۱ د | সহকারী প্রকৌশলী (পুর)               | পার্ট-১      | -         | _                                       | মৌখিক পরীক্ষা |
|     |                                     |              | পেপার-১   | <b>3</b> 20                             | লিখিত পরীক্ষা |
|     |                                     | পার্ট-২      |           |   | (Open Book)   |
|     |                                     |              | পেপার-২   | <b>\$</b> \$0                           | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Open Book)   |
| २।  | সহকারী প্রকৌশলী (যান্ত্রিক/বিদ্যুৎ) | পার্ট-১      | -         | -                                       | মৌখিক পরীক্ষা |
|     |                                     |              | পেপার-১   | \$20                                    | লিখিত পরীক্ষা |
|     |                                     | পার্ট-২      |           |   | (Open Book)   |
|     |                                     |              | পেপার-২   | 320                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Open Book)   |
| ७।  | ভূ-তত্ত্ববিদ                        | পার্ট-১      | -> -      | 700                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Close Book)  |
|     |                                     | পার্ট-২      | -         | 200                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Open Book)   |
| 81  | গবেষনা কর্মকর্তা (পরিবেশ ও বন)      | পার্ট-১      | •         | 200                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Close Book)  |
|     |                                     | পার্ট-২      | _         | \$00                                    | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Open Book)   |
| ঙ৷  | গবেষনা কর্মকর্তা (মৎস্য)            | পার্ট-১      | পার্ট-১ - | 200                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Close Book)  |
|     |                                     | পার্ট-২      | -         | 300                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Open Book)   |
| 91  | সহকারী সম্প্রসারণ কর্মকর্তা         | পার্ট-১      | -         | 200                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Close Book)  |
|     |                                     | পার্ট-২      | -         | 200                                     | লিখিত পরীক্ষা |
|     |                                     |              |           |   | (Open Book)   |

# বিঃদ্রঃ

- ১। পৃষ্ঠা-০১ হতে ০৪ পর্যন্ত শুধুমাত্র সহকারী প্রকৌশলী (পুর) এবং সহকারী প্রকৌশলী (যান্ত্রিক/বিদ্যুৎ) পদের জন্য।
- ২। পৃষ্ঠা-০৫ হতে ১৩ পর্যন্ত অন্যান্য ০৪ টি পদ (ভূ-তত্ত্ববিদ, গবেষনা কর্মকর্তা (পরিবেশ ও বন), গবেষনা কর্মকর্তা (মৎস্য) এবং সহকারী সম্প্রসারণ কর্মকর্তা) এর জন্য।

02/06/2024

(মোহাঃ নাহিনুর রহমান) সহকারী প্রৌশলী (পুর) কর্মচার পরিদপ্তর বাংলাদেশ পানি উন্নয়ন বোর্ড, ঢাকা । (মোঃ মডিউর রহুমান)
নির্বাহী প্রকৌগনী (নিরোগ/পরীকা)(অংগাঃ)
কর্মচারী উন্নয়ন পরিদণ্ডর
বাপাউবো, ঢাকা।

(মাঃ আসাদুজ্জামান) পরিচালক কর্মচারী উন্নয়ন পরিদপ্তর বাপাউবো, ঢাকা।

# SYLLABUS FOR DEPARTMENTAL EXAMINATION PART I (Oral)

# Eugineering:

- (a) For Civil Engineers:
  - (i) Preparation of designs and estimates.

    (ii) Processes of preparing materials.

- (iii) Modes and specifications of construction.

  (iv) Knowledge of local resources with regard to materials.

  (v) Basic concepts of Water Development in Bangladesh.



# 2566 THE BANGLADESH GAZETTE, EXTRA, AUGUST 3, 1982

(b) For Chemical, Electrical and Mochanical Engineers.

(Oral)

- (i) Knowledge of availability, sources, quality and price of local and imported materials commonly used for the Water Development Board.
- (ii) Performance specifications of electrical plant and requirements and reference to any standard specification applicable.
- (iii) Preparation of estimates for projects and their component parts, including local works.
- (iv) Knowledge of standard drawings, specification, works manual, etc.,
- (v) Knowledge and experience of general engineering practices as applied in Water Development Board including specifically the candidate's own experience in the field of erection commissioning. operation and maintenance of—
  - (a) Power Plants.
  - (b) Distribution and transmission system.
  - (c) Protective equipment.
  - (d) Communication system (Carrier, telephone, etc.).
- (vi) Knowledge of tariffs and rules for consumers and owners.
- (vii) Basic concepts of Water Development in Bangladesh.
- (viii) Repairs and maintainance of machinery and equipment.
- (ix) Workshop theory and practice.
- (x) Workshop Organisation and Management.
- 2. Common to all Engineers:

(These may also be used as reference books by the candidates during the examination.)

- (i) Public Works Accounts Code.
- (ii) Public Works Depatmental Code.
- (iii) Financial Rules.
- (iv) Delegation of Administrative and Financial Powers with up-to-date
- (V) Standard procedure for automatic holding of a formal investigation of Board of enquiry in the event of loss or damage of WDB property.
- (VI) Service Rules.



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3.20以上<del>的</del>数据20人工第二十二次数

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#### PART II. (Written)

## FERT I (Common to all Engineers):

- (i) The Bangladesh Water and Power Development Boards Order, 1972 (President's Order No. 59 of 1972) with up-to-date amendments and reference made therein.
- (ii) Rules and Regulations made by the Government and the Board.
- (iii) The Code of Criminal Procedure (Act V of 1898):-
  - (a) The Code of Criminial Procedure:

| Part I Chapter |   |
|----------------|---|
|                | n 32 & 33                                       |
|                | V , 42 & 45<br>7 , 54 to 57 & 59(1)             |
| " III          | 7I , 68,69,87 & 88                              |
| " īv "         | K ,, 133 to 136                                 |
|                | XIV , 160 to 163                                |
| " VI           | XV , 177,179 & 183<br>XXIV , 340 to 345         |
| " vi           | XXX ,, 403<br>XIVI ,, 540,544,545,548,556 & 560 |

(b) Tabular Statement of Offences:

| Chapter V Sec. 177 & 119  "IX "161 to 169  "X "174 to 181  "XI "196,197,202,204,217,  218 & 288 |      |
|---|------|
| ", X ", 174 to 181<br>", XI ", 196,197,202,204,217,   |      |
| " XI " 196,197,202,204,217,   |      |
|   |      |
|   |      |
| XIV 279,280,383, to 288   | raj. |
| " XV - " 295 to 298   |      |
| " XVII 352.353.358 & 374  |      |
| ", XVIII ", 403,426,430 to 438  | Ċ    |
| ,, XVIII ,, 465,466,471 & 477A  | ١.   |



# PARTE Paper-11

- (i) For Civil Engineers:
  - (1) The Embankment and Drainage Act, 1952(E.B.Act I of 1953);
  - (2) The Betterment Fees Act, T953(E.B.Act XII of 1953);
  - (3) The Canals Act, 1864(Ben. Act V of 1864);
  - (4) The Irrigation (Imposition of Water Rate) Ordinance, 1963 (R.P.Ord. VII of 1963);
  - (5) The Land Acquisition Act, 1894 (1 of 1894):
  - (6) The Cattle Trespass Act, 1871 ( I of 1871);
  - (7) The Arbitration Act, 1940 (X of 1940);
  - (8) The Worksmen's Compensation Act, 1923 (VIII of 1923);
  - (9) The Factories Act, 1965 (E.P. Act IV of 1965); and
  - (10) The Rules made under the above enactments.
  - (ii) For Electrical Engineers:
    - (1) The Factories Act, 1965 (E.P. Act IV of 1965);
    - (2) The Electricity Act. 1910 (IX of 1910);
    - (3) The Workmen's Compensation Act, 1923 (VIII of 1923);
    - (4) The Boilers Act, 1923 (V of 1923):
    - (5) The Explosives Act, 1884 (IV of 1884):
    - (6) The Industrial Relations Ordinance, 1969 (XXIII of 1969);
    - (7) The Employment of Labour (Standing Orders) Act. 1965 (E.P.Act VIII of 1965);
    - (8) The Institute of Engineers Rules for Electrical Installation for buildings;
    - (9) The Arbitration Act, 1940 (X of 1940):
    - (10) The Land Acquisition Act, 1894 (\* of 1894); and
  - (11) The Rules made under the above enactments.
  - (iii) For Chemical and Mechanical Engineers:
    - (1) The Factories Act, 1965 (E.P. Act IV of 1965);
    - (2) The Inland Mechanically Propelled Vessels Act (1 of 1917):
    - (3) The Motor Vehicles Act, 1939 (IV of 1939):
    - (4) The Workmen's Compensation Act, 1923 (VIII of 1923):
    - (5) The Boilers Act, 1923 (V of 1923):
    - (6) The Explosives Act, 1884 (IV of 1884);
    - (7) The Industrial Relations Ordinance, 1969 (XXIII of 1969);
    - (8) The Employment of Labour (Standing Orders) Act, 1965 (E.P. Act VIII of 1965);
    - (9) The Arbitration Act, 1940 (X of 1946):
    - (10) The Land Acquisition Act, 1894 (1-of 1894); and
  - (II) The Rules made under the above enactments



# a. Syllabus for Research Officer (Fishery) & Asstt. Chief (Fishery)

#### 1 Recognition of subject matter:

Fisheries science, Fish, Fish culture, Fish species.

#### 2. Fisheries resources in Bangladesh:

Role of fisheries sector in socio-economic development of Bangladesh, Inland open water, Close water, Coastal region, Marine fisheries.

#### 3. Fish as source of nutrient:

Protein, Fat, Minerals and Vitamins, Advantages of fish oil, Difference between fish fat and other animal fat. The function of fish protein, Essential amino acid.

#### 4. Water and soil management in a pond:

Role of soil and water in fish culture, Soil quality Nitrogen, Alkalinity and Hardness, Organic matter, Physical, Biological and Chemical factor.

#### 5. Removal of predator and weed fishes:

Predator, Weed fishes and Controlling measures.

#### 6. Liming, Fertilization and Food:

Classification of lime, Lime application. Organic and in-organic Fertilizer, Dosages and application. Natural Food, Supplementary Food, Food conversion ratio, Food ingredients and Food Formulation, Food demand in various stages of Fishes.

#### 7. Equipments of carp culture:

Fry, Fertilizer, Supplementary feed, Chemicals etc.

#### 8. Test of natural food and toxicity of water:

Test of Natural food and Measuring system.

#### 9. Fry transportation:

Spawn/Fry Transportation, Adaptation, Release and Conditioning.

#### 10. Poly culture:

Definition of poly culture, Objectives, Pre stocking and post stocking measurement.

#### 11. Fish-cum-rice culture:

Land preparation, Fry release and post management.

#### 12. Fish-cum-poultry culture:

# Advantages, Poultry nursing system and Management.

#### 13. Cage culture:

Cage design and preparation, Fish culture in Floating and Fixed cage.









#### 14. Pen culture:

Site selection, pre and post stocking management.

#### 15. Migration:

Definition, Classification of migration, Anadromous and Catadromous, Saft-water balance during migration.

#### 16. Flood plain aquaculture:

Effect of regulator, Importance of fish pass or fish friendly structure, Species selection, pre and post stocking management

#### 17. Some common diseases of fishes and prevention:

Definition of disease, Difference between Healthy and Diseased fish, Tail rot/Fin rot, Dropsy, Gill rot, White spot, Fish argulus and fish leech, Epizootic Ulcerative Syndrome (EUS).

#### 18. Some problems in fish culture and mitigation measures:

Gulping, Lack of oxygen, Turbidity, Heavy bloom.

#### 19. Fish preservation by ice:

Common preservation system by ice, Upgrading of ice quality.

#### 20. Fish conservation act:

Objectives, Acts and its application.

#### 21. Farm planning:

Project, Site selection and Pond preparation, Expenditure and income.



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# b. Syllabus for Research Officer (Environment and Forest) & Asstt. Chief (Environment and Forest)

- 1. Scope, Objectives and importance of forestry and environmental science with particular reference to Bangladesh.
- 2. Forest types, their location, distribution and species distribution.
- 3. Definition of Environment, scope of environmental science, Biodiversity.
- 4. Development of Agro forestry concepts, classification of agro forestry system.
- 5. Social forestry practices in Bangladesh: Scope and opportunity, problems and constraints.
- 6. Environmental issues in Bangladesh: Natural disasters like Floods, cyclones and storm surges and tornadoes, Erosion and landslides, salinity intrusion, Deforestation and depletion of forests and biodiversity, Effects of Green-house gases, Global warming and Sea level rise, Embankment and water stagnation and sedimentation, Population Explosion, Poverty, urbanization trends and slum development; Lack of environmental awareness and creation of hazards: Vehicle and noise pollution, Dumping of solid waste, unsafe water, Coastal environment and shrimp cultivation.
- 7. Biodiversity in the Sundarbans and hill forests of Bangladesh.
- 8. Concept and components of ecosystem.
- 9. Principles of forest disease management and control.
- 10. Objectives of tree improvement in Bangladesh.
- 11. Natural and artificial methods of tree plantation.
- 12. Role of forestry extension in forestry development in Bangladesh.
- 13. Plantation establishment and management: Site preparation, cultural practices-mulching, cover and nurse crops, watering use of fertilizer.
- 14. Importance of Non-timber forest product in Bangladesh.
- 15. Introduction of Geographic Information System (GIS).
- 16. Origin and development of EIA: Relation of EIA to sustainable development: EIA in project planning and implementation. Environmental auditing for government and non-governmental organizations; significance of environmental planning and design in sustainable environment.
- 17. Sustainable Environment Management plan.
- 18. Types, sources and consequences of water pollution: Ecological and biological aspects of water pollution.
- 19. Types and characteristics of domestic, industrial and agricultural wastes-their effects on water bodies.
  - Environmental Degradation and pollution, Management and prevention of disasters, Deforestation, Carbon dioxide and other Green-house gas emission, green house effect, Ozone layer depletion and Acid rain, Global warming and Sea level rise.



# **Syllabus for Geologist**

#### 1. Introduction:

• Ground water in the Hydrologic Cycle.

#### 2. Occurrence and Movement of Ground Water:

- Origin and age of ground water.
- Types of ground water
- Rock properties affecting ground water
- Geologic formation as aquifers
- Types of aquifers
- Aquifer properties
- Aquifer function
- Darcy's law
- Permeability
- Determination of Hydraulic conductivity
- Ground water flow rate
- Ground water flow direction
- General flow equation
- Ground water flow velocities

## 3. Surface investigation of Ground Water:

- Geologic methods
- Geophysical exploration
- Electrical resistivity method

## 4. Sub surface investigation of Ground Water:

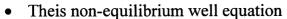
- Test drilling
- Water level measurement
- Geophysical logging

## 5. Ground Water and Well Hydraulics:

- Definition of term
- Cone of depression
- Equilibrium & non equilibrium well equation
- Hydro-geologic condition that affects time drawdown graphs
- Distance drawdown graph
- Well interference
- Well efficiency
- Radius of influence
- Recharge and boundary conditions
- Water level recovery data

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- Aquifer tests
- Other methods of aquifer analysis

#### 6. Well Drilling methods:

- Direct rotary drilling method
- Jet drilling
- Hydraulic percussion method
- Reverse circulation rotary drilling method
- Boring with augers
- Drilling fluids
- Fishing tools
- Grouting and sealing of well casings
- Plumbness and alignment

#### 7. Water Well:

- Design of production well
- Installation and development of water wells
- Selection of water well pumps

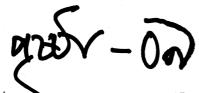
#### 8. Quality of Ground Water:

- Origin of chemical constituents of ground water
- Important properties of ground water
- Ground water constituents
- Methods to present water quality data

#### 9. Pollution of Ground Water:

- Causes of pollution
- Municipal, industrial & agricultural sources & causes of pollution
- Distribution of pollution in ground water
- Monitoring ground water quality
- Arsenic contamination







642

# **Appendix-H**

# Syllabus for Asstt. Extension Officer/Research Officer (Agri/Soil)

## 1. (A) Irrigation:

- \* Concept of irrigation and plant growth. Consumptive use of water and how it is obtained. Factors affecting consumptive use.
- \* Types of irrigation systems, advantages and disadvantages.
- \* Effect of irrigation on fertilizer doses of various crops.
- \* Estimation of irrigation water requirement, Water Budgeting.
- \* Problems in figuring the amount of water to apply and time of irrigation.
- \* Determination of Frequency and Depth of irrigation for different crops in different land types under different Agro-Ecological Zones of Bangladesh.
- \* Irrigation structures and their operation.
- \* Determination of Irrigation Requirement, Examination of when to irrigate.
- \* Water scheduling, preparation of irrigation roaster and irrigation scheduling.
- \* Seepage and percolation loss of water, Evapo-Transpiration.
- \* Effect of Irrigation on physical, chemical and biological properties of soils.
- \* Water management Organization's role in irrigation development.
- \* Block planting, Canals construction and alignment fixation by WMO's.
- \* Irrigation Act/irrigation service charge-up to date amendments.

# (B) Drainage:

- (a) The concept and importance of Drainage Systems.
- (b) Farmers' role in Drainage System Management.

# (C) Soils:

- \* Soil Texture & Structure, Soil Moisture, Field Capacity, Saturation Point, Wilting Point.
- \* Soil Fertility and productivity, Soil Texture and Crop suitability.



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692



- \* Irrigation requirement for various crops in different soil textures.
- \* Determination of Soil Moisture under field condition.
- \* Soil Auger, Field tests, Soil Profile analysis.
- \* Root depths of various crops.
- \* Soil Micro-organisms, their role on Soil Health, Soil Fertility and productivity.
- \* Agro-Ecological Zones of Bangladesh.
- \* Physical, Chemical & Biological Characteristics of Soil, their impact on cropping pattern.
- \* Characteristics of land types, Field identification of land types, Effect of land types on Crops and Cropping Patterns.
- \* Soil salinity and alkalinity.
- \* Assessment of Soil Environmental impacts due to implementation of Water Management interventions and development of Mitigation Measures.

## (D) Agronomy:

- \* Production technology of major crops of Bangladesh.
- \* Development of crop and irrigation programmes for irrigation projects.
- \* Mitigation of adverse situation-floods, submergence, drought, cyclones etc. manures, chemical fertilizer and concentrates.
- \* Animal manures and their storage, Green Manures, Compost and compost making.
- \* Land Types classification, its co-relation with crop production, crop yield, crop damage and cropping pattern.
- \* Soil-Water-Plant relationship. Water requirements at different Growth Stages.
- \* Vermicompost production and use.
- \* Farm power and implements.

# (E) Agro-Socio-economic surveys:

- \* Survey on Land Types and cropping pattern. Land Use Survey.
- \* Conducting Transact walks, Seasonal Diagram. Wealth Ranking, Well being ranking.
- \* Information Campaign, Need Assessment and Geographical Planning.
- \* Crop yield, production practice & input use level and farm economics analysis.
- \* Crop production constraints analysis-determination of Flood, Submergence/water logging, Drought, Salinity related crop damages analysis.



## 2. (A) Agriculture Extension:

- \* Historical development and purpose of Agriculture Extension.
- \* Organization of extension.
- \* Job description of extension officers.
- \* Extension methods.
- \* Leadership in extension and how to develop leadership among rural people.
- \* Leadership qualities, Do's and Don'ts.
- \* WMOs and their importance in extension. Working with WMOs.
- \* Irrigation development block committee (how to make them effective).
- \* Meetings, how to organize and hold programme.

## (B) Visual Aids:

- (a) Method Demonstration.
- (b) Result Demonstration.
- (c) Pictures, Photos, Models, Exhibits, Posters, Slides, Film Strips etc.
- (d) Field trips, their purpose and how to organize.
- (e) Reports, their purpose and how to prepare reports.

# (C) Participatory Water Management:

- \* Definition, Scope & needs, Stages of People's Participation in water sector projects.
- \* Guidelines for Participatory Water Management.
- \* Co-Operative Act-2001 & Rules-2004 and changes thereof.
- \* Problems and prospects of developing sustainable Community Based Organizations for establishing participatory water management.

# (D) Farm Management:

- (a) Introduction to Farm Management, Technical aspects of Farm Management.
- (b) Basic Economic principle. Interviewing Farmers.
- (c) Farm Business Survey, Preparation Survey, to make use of surveys.
- (d) Tabulations of survey data and its interpretation.
- (e) Group statistics, diagnosis of problems of individual farmers.
- (f) Description of records and books.
- (g) Analysis of record books and preparation of financial statements.
- (h) Farm Business Analysis. Making farm plan and budgets.









# Appendix: A

Syllabus: (Common for all Disciplines) (Non-Engineer's only)

- The Bangladesh Water Development Board (employees) Service Rules-1982 with up 1. to date amendment.
- 2. National Water Policy (NWPo).
- 3. Bangladesh Water Development Board Act-2000.
- Delegation of Administrative power and Delegation of Financial power-2005. 4.
- 5. Rules of Procedure-2003.
- 6. Functions & Job Description-2001.
- 7. Public Procurement Regulation-2003 with up to date amendment.

