

Curriculum



Diploma in Child Health (DCH)

**Bangabandhu Sheikh Mujib Medical University
Shahbagh, Dhaka.**

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- 1. Name of the course** : **Diploma in Child Health (DCH)**
- 2. Duration** : Two academic years
- 3. Date of commencement** : July of each year
- 4. Aims and objectives** :
 - a. To produce medical specialists with knowledge, skill and aptitude in the field of Paediatrics.
 - b. The specialists along with clinical skills need to have good knowledge in community paediatrics, preventive paediatrics and public health.
 - c. Shall be aware of one's professional limitation of medical practice and be able to refer to appropriate centers/specialist when required.
- 5. Eligibility for admission:**
 - a. MBBS or its equivalent degree recognized by BMDC.
 - b. Minimum two years after passing MBBS or its equivalent degree recognized by BMDC.

6. Course content:

Paper 1 (Basics)

Group A:

Applied Anatomy & Physiology and related

1. Embryology
2. Physiology of the newborn
3. Growth and development
4. Assessment of physical and mental age
5. Blood formation
6. Assessment of nutrition and nutritional requirement
7. Water and electrolyte balance
8. Anatomical variations in childhood
9. Mental and emotional development
10. Radiation hazards
11. Basic statistics
12. Genetics
13. Bacteriology
14. Parasitology

Group B:

Laboratory Procedures, Techniques and related

1. Collection of material and common pathology techniques
2. Common Bacteriological and biochemical methods
3. Examination of throat swab, blood, marrow fluid, urine, stool, cerebrospinal fluid, pus CO₂ combining power, protein, sugar, calcium, chloride phosphates, urea and N.P.N., cholesterol, alkaline phosphatase
4. Blood grouping and cross matching
5. Principles of serological procedures, W.R., Khan Tests, Widal reactions etc.
6. Immunity and allergy tests
7. Special Pathology of respiratory, cardiovascular and nervous systems, liver, spleen, endocrine, kidney and urinary tract, bones, parasitic and bacterial infections of intestines.
8. Deficiency diseases
9. Radiology examination in children.

Paper-II

Group A: Diseases of children and their preventions

1. Disorders of the newborn
2. Digestive disturbance
3. Diarrhoeas and dysentery in infancy
and childhood
4. Helminthic infections
5. Tuberculosis
6. Rheumatic affection, diseases of
joints
7. Veneral diseases of childhood
8. Diseases of respiratory system
9. Diseases of cardio-vascular system
10. Peripheral vascular diseases
11. Acrodynia
12. Diseases of blood
13. Diseases of the lymphatic system
14. Diseases of the liver, peritoneum

Group B:

1. Diseases of the kidney and urinary tract
2. Tropical diseases
3. Diseases of the metabolism including inborn errors of metabolism- Amyloidosis, Glycogen storage diseases, Lipodystrophy
4. Allergic diseases
5. Endocrine disorder
6. Diseases of the nervous system, Myopathias
7. Convulsions
8. Mental and psychological disorders
9. Common surgical diseases
10. Common diseases of eye, nose, throat and mouth
11. Common skin diseases
12. Dentations and dental disorders
13. Communicable diseases
14. Accident and poisoning in children.

Paper-III

Group-A: Public health Legislations and Cognate subjects in relation to Child Health

1. Child welfare and child protection legislations in Bangladesh
2. Comparative study of legislations of other countries
3. Vital statistics
4. Care of healthy child
5. Functions and working of child welfare centers, day nurseries, kinder garden child guidance clinics
6. School medical service and dental service, care of handicapped children-homeless, deaf, dumb, mentally defective children etc.
7. Juvenile courts
8. IMCI
9. Immunization

Group B:

A. Therapeutics in Paediatrics

1. General care of newborn
2. Sick children including premature on specific drugs and their use
3. Other important drugs commonly used in paediatric practice
4. Ancillary treatment
5. Parenteral fluid therapy
6. Physiotherapy

B: Feeding and Dietetics

1. Determination of food requirements
2. Infant feeding, Breast feeding, feeding difficulties
3. Feeding in older age period
4. Dietetics of the sick child
5. Folk diet

7. Training rotations: A trainee during his/her tenure need to have a three month attachment in the neonatology ward apart from his training in general Paediatrics.

8. Summative Examination:

8.1. Summative or exit examination will be at the end of the course and then in every January and July of each year, the date determined by the university

8.2. There will be three papers on written examination.

8.3. Written questions: In each paper there will be four questions. Two of them will be long Essay type and two will of SAQ, five in each question. Each paper will be divided into two groups: Group A & Group B

8.4. Clinical-practical:

Clinical: There will be one long case and minimum three short cases. In long case 30 minutes will be

for history taking and examination and 15 minutes for crossing by two examiners. Fifteen minutes will be allotted for short cases. Two examiners will assess the candidate in long case. Two examiners will assess short cases of opposite group of students.

Practical/OSCE: 10 stations

8.5. Oral: There will be two boards: In each board there will be two examiners. Fifteen minutes for each board equally divided into two examiners. There will be 4 examiners, Associate professor and above. 50% of the examiners will be external.

8.6. To pass, the candidate have to secure at least 60% marks in each of the three components of written (three paper combindly), clinical-practical and oral examination

Components of examination	Paper	Marks allotted	Time	Pass marks
a. Written	Paper-I	100	3 hours	
	Paper-II	100	3 hours	
	Paper-III	100	3 hours	
	Total	300		180
b. Clinical & Practical	Clinical	100		120
	OSCE	100		
c. Oral		100		60
Total		600		360

9. Formative assessment:

There will formative assessment at the end of each six months of training by the supervisor/ department or by the institute. Three satisfactory certificates will be pre-requisite along with others for appearing in the final exit examination. The last six month will end with summative examination.

10. Core clinical Syllabus

10.1 Anatomy

1. Embryology
2. Anatomical variations in childhood
3. Assessment of physical and mental age

10.2 Physiology

1. Physiology of new born
2. Growth and development
3. Assessment of nutrition
4. Water and electrolyte balance

10.3 Pathology

Pathology & pathogenesis of different granulomatous disease

1. TB, Leprosy, Syphilis
2. Inflammation, Repair
3. Hyperplasia, Hypertrophy, Neoplasia.

10.4 Microbiology

Infectious diseases

1. Small-pox, chicken-pox

2. Diphtheria
3. Measles
4. Rubella
5. Whooping cough
6. Mumps
7. Meningitis
8. Enteric fever
9. Diarrhoeas and dysenteries
10. Cholera
11. Anterior Poliomyelitis
12. Tetanus
13. Ophthalmia neonatorum
14. Congenital syphilis
15. Other common infectious diseases
16. Immunology
17. Prophylactic measures

10.5 Pharmacology

1. Use of antibiotics in different diseases

Penicillin

Macrolides

10.6 Respiratory tract infection

1. Bronchiolitis
2. Pneumonia
3. Bronchial Asthma
4. Acute tracheal infection
5. Foreign body inhalation

10.7 Digestive system

1. Acute Diarrhoea
2. Persistent Diarrhoea
3. Portal Hypertension
4. Esophageal atresia
5. Intestinal obstruction
6. Imperforate Anus
7. Hirschsprung's disease
8. Congenital hypertrophic pyloric stenosis

10.8. Heart

1. Congenital abnormalities of heart
2. Infective Endocarditis

10.9. Kidneys

1. Acute glomerulonephritis
2. Nephrotic syndrome
3. Urinary Tract Infection

10.10. Blood

1. Nutritional anaemia
2. Haemophilias
3. ITP
4. Henoch-Schonlein Purpura

10.11. Neurology

1. Convulsions in infancy and childhood
2. Gullain-Barre syndrome
3. Encephalitis-Meningitis

10.12. Poisoning

1. Accidental poisoning in childhood
2. Drowning

10.13. Endocrine

1. Thyroid abnormalities in children
2. Diabetes mellitus in children

11. Procedural skill

1. I/V Canula
2. Lumbar puncture
3. Bone marrow examination
4. Endotracheal intubation
5. Nebulisation

6. Pleural fluid aspiration
7. Ascitic fluid aspiration
8. Developmental assessment
9. Naso gastric intubation
10. Knowledge regard & pediatric radiology
& imaging

12. Writing case-note/ Operation note

Each student will write at least 10 case notes (History, Examination, Treatment, Investigation and follow up)/Operation note.

13. Learning process:

Principle of learning

- Need based, problem oriented, structured learning
- Structured supervised outcome based training.

Teaching-Learning methods

- Lecture
- Tutorial

- Interactive session/ Clinical meeting
- Seminar/conference
- Clerkship, Ward round, IPD, OPD.
- Skill training through different diagnostic and therapeutic multidiscipline clinic.

14. Eligibility for appearing in the final examination

- a) Two years in-course training
- b) 3 satisfactory 6 monthly report of formative assessment
- c) 75% attendance in lectures and other academic activities
- d) Satisfactorily completed logbook including case book



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Diploma trainee's Block progress report

Name of the trainee : _____ Session : _____
 Name of the course : _____ Reg. No: _____
 Name of the institute : _____
 Period of block : _____

Performance	Poor	Satisfactory	Good	Excellent
Written*				
Clinical- Practical*				
Oral*				
Attendance*				
Attitude				

*Poor:<50%, Satisfactory:≥50-60%, Good:>60-75%, Excellent:>75%

Note: "Poor" grade in more than two performance during a particular block means deficient training and also cause disqualification for appearing in the final examination unless training in particular block is complete.

Signature:

Head of the Department
(Seal)