

Criteria for Admission, Examination and

Outline of syllabus

For

Diploma in Dialysis Technician



INDIAN MEDICAL ASSOCIATION

IMA HOUSE, I.P. MARG

NEW DELHI – 110 002

Ph:2337 0009, 2337 8819, 2337 8424

ELIGIBILITY

- 1) Passed 10 + 2 and 40% with science stream (Physics, Chemistry, Biology, Mathematics, Agriculture, etc.) for the IMA Paramedical Courses.
- 2) If such candidates are not available then the institutes may enrol students from any other stream with minimum of 50% of aggregate marks with an under taking/Affidavit from the students that they are fully aware that the Diploma may not be recognised by some of the State Governments and that they are undergoing the training on their own risk and will. Such an undertaking/Affidavit will have to be submitted to IMA at the time of enrolment of the candidates.
- 3) The candidate seeking admission in to Diploma courses should have attained 17 years of age as on 31ST December of the year of admission but not more than 25 years at the time of admission. Age relaxation of 5 years for SC/ST candidates and 3 years for OBC candidates is admissible.

DURATION OF THE COURSE

The duration of the Dialysis Technician Course shall be Two Years and there is no internship programme.

MEDIUM OF INSTRUCTION

English shall be the medium of instruction for all the subjects of study and for the examination of Dialysis Course.

ATTENDANCE

A candidate is required to attend at least 75 percent of total classes conducted in year in all subjects prescribed for the year, separately, in theory and practical/clinical postings to become eligible to appear for the Institute examination. The Principals should notify at their college the attendance details at the end of each term without fail, under intimation to the Institute.

SCHEDULE OF EXAMINATION

There will be two examination in a year, i) July and ii) November. Examination to be conducted as per notification issued by the Institute from time to time.

EXAMINATION

There will be 3 Theory papers as under: -

Paper –I - Basic **Sciences** (*Anatomy & Physiology*)

Paper-II - Fundamental of Dialysis Technique & Procedure

Paper-III – Nephrology – Diseases, Causes and Management

TUTION FEE including Admission Fee (Excluding Enrolment & Examination Fee) is Rs. 30,000/- per year. Rs. 2000/- Registration Fee and Rs. 3000/- Examination Fee per candidate.

CRITERIA FOR PASSING

A candidate is declared passed in an examination in a subject, if he/she secures 40% of marks in theory and 40% in practical separately, will be placed in division as under :

- i) 75% : Distinction
- ii) 60-74.9% : I st Division
- iii) 50- 59.9 % : 2nd Division
- iii) 40-49.9% : Pass

SUPPLEMENTARY EXAM : Candidate failing may take up supplementary examination to be held after six (6) months.

GOVERNING BODY

This will be the monitoring and governing body to run the course and to look after its different facets so that the course run by it is lucrative and useful in producing trained medical personnel's who are useful to the laboratories and who may earn livelihood by getting employment in prestigious laboratories.

Board will consist of :

- 1. Chief Coordinator of Medical Technology - 1
- 2. Coordinators – 2 (two)
 - a. Senior Medical Officer (Medicine) - 1
 - b. Nephrologist - 1
*(M.D with at least 10 years experience
in Nephrology practice)*

IMA President and Hony. Secretary General or their nominee will be permanent participant having voting power. Tenure of board should be two years.

**SYLLABUS for Two Year Diploma in
Dialysis Technician**

PAPER – I

BASIC SCIENCES:

ANATOMY AND PHYSIOLOGY

1. Basic Concepts
2. Circulatory and Respiratory Systems
3. Digestive and Excretory System
4. Nervous System
5. Endocrine System
6. Sensory Organs : Ear, Eye, Nose, Tongue and Skin
7. Musculo- skeletal System
8. Reproductive System

PAPER - II

DIALYSIS TECHNIQUES AND PROCEDURES

1. History of dialysis
2. Principles and types of dialysis, role of dialysis technician
3. Vascular access for dialysis and role of technician.
4. Anticoagulation: Principles and problems
5. Instruments & equipments used in dialysis
6. Details about dialysate fluids & dialyzers
7. Details about RO plant & water composition used in dialysis
8. Haemodialysis: Initiation of Haemodialysis, Haemodialysis Apparatus, Vascular access for Haemodialysis, Acute Haemodialysis prescription, Chronic Haemodialysis prescription, Complication during Haemodialysis.
9. Haemodialysis Machine: Working Principles and maintenance (indications, detail procedure, pre & post procedure care, interaction with patients)
10. Complication and management of complication during dialysis.
11. Assessment of adequacy of dialysis.
12. Reuse of dialysis.
13. Sterile techniques in dialysis.
14. Nutritional advices in a patient of dialysis
15. Emergencies in dialysis.
16. Peritoneal Dialysis: Physiology, Apparatuses for peritoneal dialysis, Peritoneal access devices, Acute peritoneal dialysis prescription, Adequacy of peritoneal dialysis, Chronic Peritoneal Dialysis, Prescription assessing peritoneal Ultra filtration, Solute transport and volume status.

PAPER - III

NEPHROLOGY

DISEASES, CAUSES & MANAGEMENT

1. Introduction of renal diseases.
2. Renal failure- Acute and Chronic , Immediate management.
3. Glomerulonephritis
4. Diabetic & Hypertensive Nephropathy : Definition, pathology, clinical features, investigations & management.
5. Urinary tract infection, urosepsis & urolithiasis : Definition, types, causes, effect on kidneys, clinical features, investigations & management.
6. Abnormalities of kidney and Urogenital System