

DIPLOMA IN DIABETOLOGY (DIP-DIABETES)

BY NISHTAR MEDICAL UNIVERSITY MULTAN

Course duration two years

REGULATIONS:

1. Every candidate must be a medical graduate possessing the degree of MBBS or equivalent recognized by PMDC.
2. He/she must be registered with PMDC. In case of foreign candidates the doctor must be registered with the medical registration authority of that country and temporarily registered with PMDC. If the candidate has received training in Pakistan then he must be registered with PMDC.
3. He/she must have completed six months house job in medicine or allied and six months in surgery or allied discipline, or one year of rotational training in Medical and allied or surgical and allied specialties.

The Diabetes Department must fulfill the following minimum criteria.

1. At least one consultant with a major degree in Medicine/diabetes & endocrinology.
2. Facilities for admission, diagnosis and treatment of all common diabetic problems.
3. Facilities for management of critical diabetic complications like Diabetic keto acidosis and hypoglycaemia.
4. Facilities for procedures like Doppler for looking after complicated diabetic foot problems(chiropody care), eye department for looking after ophthalmic complications, dialysis/renal unit.
5. Services in the field of Pathology and imaging provided by the concerned department of NMU
6. Curriculum prescribed by the university will be followed
7. Final Selection for diploma in Diabetes would be on the basis of aggregate merit in MBBS, passing an entry test and interview.
8. In case of candidates who have attained the necessary experience in Diabetes abroad, they must produce a certificate from the head of institution or the head of the department that the department has necessary infrastructure as prescribed in Para 1.5. They must be registered with the medical registration authority of that country and must seek temporary registration with PMDC.

9. English shall be the medium of instruction and examination.

2. **COURSE DURATION: (2 YEARS)**

14 Months Diabetes & Endocrinology unit

2 Months Internal medicine.

2 months mandatory experience in Research and collaborating Studies in the department

1 Months community diabetology (epidemiological studies community awareness and educational programmers).

1 month dietician/foot care clinic

1 Months Diabetes counseling (communication skills) Insulin start advice.

2 weeks ophthalmology

2 weeks cardiology

2 weeks nephrology

2 weeks G.surgical /plastic surgery/A& E optional

2 weeks in OBG

2 weeks in Peads

This course of study and the outlines of examination advised by the Board of Postgraduate Studies in the syllabus may be changed by the said Board and approved by the Syndicate of NMU as and when found necessary. Such change however, shall be notified at least one year before the date of commencement of the examination in which they will become effective.

All candidates must submit to the department a research dissertation or one paper published in a journal recognized by PMDC at least three months prior to examination, which should be approved by the head of the department.

There will be an intensive course of 2 to 4 weeks run by diabetes & endocrinology department NMU. All the candidates will be encouraged to attend this course. There course fee will be payable to diabetes & endocrinology Department NMU. The course will be covering all areas of the curriculum.

3. EXAMINATION:

1. There shall be one examination each year.

2. There will be anual and supplementary examination.

3. Success in examination will lead to the award of Diploma in Dialectology by NMU Punjab.

4. The examination will be conducted in two parts
5. The examination shall be held in the month of December each year at NMU.
6. Candidate having successfully completed 2yrs training with more than 80% attendance, have presented in 4 (four) hospital clinical meetings, conducted an audit and completed dissertation will be allowed to sit in exam.
7. The examination shall consist of the following components.

OUTLINES OF EXAMINATION

Paper A

- a. Written paper in basic, clinical and applied diabetes prevention management and recent advances in diabetes
- b. There shall be 10 short essay question of 10 marks each
- c. Time allocated shall be 3 hours for each exam

Paper B

- a. MCQSA paper in basic, clinical, applied and prevention of diabetes and management of complications and recent advances in diabetology
- b. There shall be 10 MCQ of 100 marks with a total of 100 marks.
- c. Time allocated shall be 3 hours.

C ORAL AND PRACTICAL

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| 1. Viva Voce_____ | 100 marks |
| 2. Short Cases_____ | 50 marks |
| 3. Long Cases_____ | 50 marks |

Grand Total 200 marks

Viva Voce will also include interpretation of X-Rays, slides, Data interpretation, E.C.G. Fundal photographs, Case studies and special reports.

The minimum number of passing marks to pass this examination shall be 60% in theory component and 60 % oral and practical component separately. The aggregate pass marks shall be 60%. A candidate who secures 80% marks or above shall be declared to have passed with distinction. Head of the department of diabetes & endocrinology NMU will be the convener of the examination.

There shall be a total of 2 examiners, one from NMU and one external. At least one internal and one external must be a medicine/diabetology/endocrinology. Two examiners should be from the related specialties like ophthalmology, nephrology, plastic/general surgery, paediatrics, gynaecology, internal medicine. The examiners will be selected by the controller of examinations, University of NMU in consultation with the head department of diabetes & endocrinology,

The questions in written papers will be shared on 50% basis both for setting and marking purposes by the internal and external examiners. However, the MCQs shall be prepared and marked by the examiners from NMU.

The board of examiners shall arrange the result of written, clinical, practical and oral in a consolidated form and send it as soon as possible but not later than 7 days after the completion of examination to the controller of examination for formal declaration. There should be 6 limits of the number of attempts for diploma examinations.

4. EXAMINATION FEE

1. A fee of Rs. 20,000/- (or whatever amount stipulated by NMU from time to time) shall be charged for admission to the examination. The application form with admission fee should reach the controller of examination Nishtar Medical University not later than 30 days before commencement of the examination.

2. A late fee of Rs. 1,000/- shall be charged in addition to admission fee, for application submitted after the last date of submission of application forms, provided such application form and examination fee are received no later than fifteen days before the commencement of the examination. No application for examination will be accepted after that.

5. REQUIREMENTS TO SIT IN THE EXAMINATION:

1. MBBS or equivalent qualification recognized by PMDC.
2. 12 months house job certificate as already described
3. Registration certificate from PMDC. In case of foreign candidates registration from the medical registration authority of the country and temporarily registration of PMDC.
4. The certificate must also reflect that the candidate has completed the following mandatory practical work during his/her stay in the unit.
5. Insulin pump monitoring.
6. Doppler examination of legs.
7. Diabetic foot care plan.
8. Diabetic Eye Screening
9. Diabetic counseling Programme
10. Diabetic crises/coma management.

SYLLABI AND COURSES OF READING

PART-I

1. Introduction to diabetes / History of Diabetes.
2. Diagnosis and classification of Diabetes
3. Public Health aspects of Diabetes.
4. Normal physiology of Insulin secretion and action.
5. Epidemiology and aetiology of type 1 diabetes.
6. Epidemiology and aetiology of type 2 diabetes.
7. Insulin resistance and Metabolic syndrome.
8. Other types of Diabetes
9. Diabetes control and its measurement.
10. Management of type I diabetes
11. Management of type 2 diabetes.
12. Global, National and regional strategies for control of Diabetes

PART II

1. Diabetic ketoacidosis and hyperosmolar non-ketotic hypergi caemia
2. Hypoglycaemia
3. Control and complications
4. Diabetic eye disease.
5. Diabetic nephropathy
6. Diabetic neuropathy.
7. Blood lipid abnormalities.
8. Hypertension in diabetes.
9. Macrovascular disease in diabetes.
10. Foot problems in diabetes.
11. Sexual problems in diabetes.
12. Gastrointestinal problems in diabetes
13. Skin and connective tissue disorders in diabetes.

14. Psychological and psychiatric problems in diabetes.
15. Some intercurrent problems in diabetes.
16. Pregnancy and diabetes.
17. Diabetes in childhood.
18. Diabetes in old age.
19. Diabetes and lifestyle.
20. Organization of diabetes care: Diabetes specialist nursing, diabetes education and general practice.
21. Future directions in diabetes management and research.

BOOKS AND JOURNALS FOR READING

A. BOOKS:

1. Text Book of Diabetes. J.C.Pickup & G. Williams.
2. Insulin resistance A. Krentz.
3. A practical manual of Diabetic foot care. M.E.Edmunds, A.V.M.Fosters.
4. Diabetes and its Management. P.J.Watkins, S.A.Amiel, S.L.Howell & E.Turner.

B. JOURNALS:

1. Diabetic Medicine.
2. Diabetes care.
3. Diabetologia
4. Diabetes.
5. New England journal of medicine.
6. Journal college of Physicians and Surgeons of Pakistan.