

# OUTLINE OF PROFESSIONAL COURSES IN OPTOMETRY AND PARAMEDICAL TECHNOLOGY

## Prospect of Optometrist

Optometry is an art and science of Vision & Eye Care. Demands of Optometrists are gradually increasing day by day in Governmental & Non-governmental sectors. An Optometrist can examine the patient independently & prescribe visual remedies as Eye Care Consultant.

## Prospect of Paramedics

A Paramedic is a medical professional, who primarily provides pre hospital & advanced medical care. Paramedics are essential in health care services. In our country shortage of paramedical staffs/paramedics are in different governmental & non-governmental sectors.

So demands of Paramedical Staffs are gradually increasing.....

## ELIGIBILITY

- **For Diploma Courses**

H.S.[10+2](Science) or equivalent.

Students from Arts/Commerce stream may be admitted and they have to complete one year Pre-Optometry & Pre-Technology course. No extra time necessary for this course. This course and Original course will run simultaneously during the same period.

- **For P.G. Diploma Courses**

Graduation in Science/Allied & Health Care Sciences

- **For Certificate Courses**

Madhyamik or equivalent

## AGE

Minimum age for admission (either sex) is 17 (Seventeen) years. No limitation in upper age.

## DURATION

Diploma Courses : 2 years + 6 months compulsory internship

PG Diploma Courses : 1 year + 6 months compulsory internship

Certificate Courses : 1 year + 6 months compulsory internship

## FEES PACKAGE

Diploma Courses : INR 1,70,000/- (Including all except Exam Fees & Govt. Training Fees)

PG Diploma Courses : INR 1,60,000/- (Including all except Exam Fees & Govt. Training Fees)

Certificate Courses : INR 80,000/- (Including all except Exam Fees & Govt. Training Fees)

Diploma + Bridge Course for non-science students : INR 1,80,000/-

## DIPLOMA COURSES

### D.O.S.&O.T. (Diploma in Optometrical Science and Ophthalmic Technique)

COURSE CONTENT	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Pathology, Bacteriology and Parasitology
Human Physiology	Disease of the eye
Hospital Administration and Entrepreneurship	Orthoptics, Contact Lens and Low Vision Aids
Pharmacology	Preventive and Social Medicine
Ophthalmic Lens and Dispensing	Clinical Optometry
Physiological and Visual Optics	Paediatric Optometry, Behavioural Optometry and Sports Vision

### **D.M.L.T. (Diploma in Medical Laboratory Technique)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Clinical Pathology
Human Physiology	Biochemistry
Hospital Administration and Entrepreneurship	Microbiology, Serology and Virology
Haematology and Blood Banking	Histopathology, Laboratory Hazard and Quality Control

### **D.M.R.T. (Diploma in Medical Radiology Technique)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Regional Radiography
Human Physiology	Special Radiography
Hospital Administration and Entrepreneurship	Ultrasonography
Radiophysics	Dark Room, X-ray Film and Image Processing

### **D.P.T. (Diploma in Physiotherapy Technique)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Physiotherapy Part-II
Human Physiology	Pharmacology
Hospital Administration and Entrepreneurship	Yoga, Assana and Exercise
Physiotherapy Part-I	Biomechanics, Kinesiology and Electrotherapy

### **D.D.T.&O.H. (Diploma in Dental Technology and Oral Hygiene)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Orofacial Anatomy & Physiology	Oral Hygiene
Prosthodontics and Orthodontics	Oral Rehabilitation
Dental Material	Casting and Tooth Preparation
Hospital Administration and Entrepreneurship	Dental Radiography

### **D.D.T. (Diploma in Dialysis Technology)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Principles of Haemodialysis & Vascular Access
Human Physiology	Dialysis Machines & Anticoagulation and Dialyser in Haemodialysis
Hospital Administration and Entrepreneurship	Peritoneal Dialysis
Renal Failure and Management	Complications of Haemodialysis and Infection Control in Haemodialysis

### **D.E.C.G.&P.F.T. (Diploma in Electrocardiography and Pulmonary Function Test)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Electrocardiography
Human Physiology	Halter Monitoring, TMT and Echocardiography
Hospital Administration and Entrepreneurship	Pulmonary Function Test (TMT)
Cardiovascular Diseases	Cardiological Paediatric Interventions

### **D.A.T. (Diploma in Anaesthesia Technique)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Preoperative Assessment and Preparation for Anaesthesia
Human Physiology	Anaesthesia for Surgical Specialities
Hospital Administration and Entrepreneurship	Obstetric Anaesthesia and Analgesia
Physiological Support of Surgical Patient	Paediatric and Neonatal Anaesthesia
Surgical Instruments	Regional Anaesthesia and Anaesthetic Emergencies

### **D.P.A.&E.D. (Diploma in Physician Assistant and Essential Drugs)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Systemic and Communicable Disease
Human Physiology including Biochemistry	Essential Medicines
Hospital Administration and Entrepreneurship	First Aid and Management
Pharmacology	Gynaecology & Obstetrics
Preventive and Social Medicine	Health Education and Community Health
Food and Nutrition	Cardiovascular Diseases and ECG

### **D.O.T.T. (Diploma in Operation Theatre Technology)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Surgical Instruments for General and Lap Surgery
Human Physiology	Abdominal Gastro-intestinal, Gynaecological & Obstetrical Surgery Operation Theatre
Hospital Administration and Entrepreneurship	Eye, ENT and Genitourinary Surgery Operation Theatre
Preparation of Patient for Surgery including Anaesthetic Preparation	Orthopaedic Operation Theatre

### **D.C.C.T. (Diploma in Critical Care Technology)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Vascular Technology and Invasive Cardiology
Human Physiology	Electrocardiography, Echocardiography, TMT, Halter Monitoring
Hospital Administration and Entrepreneurship	Instruments and Machines in Cardiac Care
Thromboembolic Disease	Life Support Skill and Cardiological Intervention

### **D.D.T. (Diploma in Dialysis Technology)**

<b>COURSE CONTENT</b>	
1 <sup>st</sup> Year	2 <sup>nd</sup> Year
Human Anatomy	Principles of Haemodialysis and Vascular Access
Human Physiology	Dialysis Machines & Anticoagulation and Dialyser in Haemodialysis
Hospital Administration and Entrepreneurship	Peritoneal Dialysis
Renal Failure and Management	Complications of Haemodialysis and Infection Control in Haemodialysis

## **BRIDGE COURSE**

### **Pre-optometry and Pre-technology (Bridge Course)**

<b>COURSE CONTENT</b>
Physics
Chemistry
Biology

## **P.G. DIPLOMA COURSES**

### **P.G.D.M.L.T. (Post Graduate Diploma in Medical Laboratory Technology)**

<b>COURSE CONTENT</b>
Anatomy, Physiology and Biochemistry
Hospital Administration and Entrepreneurship
Haematology and Blood Banking
Microbiology, Serology and Entomology
Virology, Mycology and Immunology
Toxicology, Histopathology, Laboratory Hazard and Quality Control

### **P.G.D.M.R.T. (Post Graduate Diploma in Medical Radiology Technology)**

<b>COURSE CONTENT</b>
Anatomy, Physiology and Biochemistry
Hospital Administration and Entrepreneurship
Radiophysics
Regional and Special Radiography
Ultrasonography & Echocardiography
CT & MRI Scan

### **P.G.D.O.T.T. (Post Graduate Diploma in Operation Theatre Technology)**

<b>COURSE CONTENT</b>
Anatomy, Physiology and Biochemistry
Hospital Administration and Entrepreneurship
Physiological support and preparation of patient for surgery including anaesthetic preparation
Surgical instruments for General and Lap Surgery
Abdominal, Gastro-intestinal and Gynaecological & Obstetrical surgery OT
Eye, ENT, Orthopaedic and Genitourinary Surgery OT

### **P.G.D.D.T. (Post Graduate Diploma in Dialysis Technology)**

<b>COURSE CONTENT</b>
Renal Anatomy, Physiology and Biochemistry
Hospital Administration and Entrepreneurship
Renal failure and Management
Principles of Haemodialysis and Vascular access
Dialysis machine and anti-coagulation & dialyser in haemodialysis
Complication of haemodialysis and infection control in haemodialysis unit

### **P.G.D.C.C.T. (Post Graduate Diploma in Critical Care Technology)**

<b>COURSE CONTENT</b>
Cardiac Anatomy, Physiology and Biochemistry
Hospital Administration and Entrepreneurship
Thromboembolic disease
Vascular technology and invasive cardiology
Electrocardiography, Echocardiography, Trade Mill Test, Halter Monitoring
Life support, skills and cardiological intervention

### **P.G.D.D.T. (Post Graduate Diploma in Hospital Administration)**

<b>COURSE CONTENT</b>
Anatomy and Physiology
Health Education
Introduction to Health Care Industry
Hospital Counselling and Rehabilitation Services
Total Quality Management and Medical Services
Clinical Establishment Act and Consumer Protection Act

### **P.G.D.G.C.T. (Post Graduate Diploma in Geriatric Care Technology)**

<b>COURSE CONTENT</b>
Anatomy and Physiology
Theories of Ageing and Life Expectancy
Ageing and Illness
Geriatric Services
Clinical Assessment of Older People
Rehabilitation

## **CERTIFICATE COURSES**

### **C.B.P.N. (Certificate in Basic Practical Nursing)**

<b>COURSE CONTENT</b>
Human Anatomy and Physiology
Community Health Nursing
Home Nursing & First Aid
Mother & Child Care and Geriatric Nursing
Gynaecology & Obstetrics
Systemic and Communicable Diseases
Communication Method
Basic Computer Skill

### **C.S.I. (Certificate in Sanitary Inspection)**

<b>COURSE CONTENT</b>
Human Anatomy & Physiology
Hospital Administration
Basic Computer Skill
Preventive and Social Medicine
Maternal and Child Health
Health Education and Community Health
Personal Hygiene
Communication Method, Field Work and Report Writing

## C.M.S.&E.D. (Certificate in Community Medical Service and Essential Drugs)

COURSE CONTENT
Human Anatomy & Physiology
First Aid and Management
Basic Computer Skill
Preventive and Social Medicine
Essential Medicines
Maternal and Child Health
Health Education and Community Health
Systemic and Communicable Disease
Food and Nutrition
Communication Method, Field Work and Report Writing

## ADVANCE DIPLOMA COURSES

<b>ELIGIBILITY</b>	Degree / Diploma in Optometry from any recognised university
<b>AGE</b>	Minimum age for admission (either sex) is 17 (Seventeen) years. No limitation in upper age.
<b>DURATION</b>	1 year
<b>FEES PACKAGE</b>	INR 80,000

## A.D.C.L.P. (Advance Diploma in Contact Lens Practice)

COURSE CONTENT
Disease of the Eye
Pharmacology
Clinical Contactology
Topography and Optics of Contact Lens

## RULES & REGULATIONS

### PROCEDURE FOR ADMISSION

Application for Admission is to be made in Prescribed Application Form along with Cash/DD of Rs. 250/- (Rupees Two Hundred & Fifty only) as fee for Admission Test ( Non-refundable) payable in favour of "DR. K. R. ADHIKARY COLLEGE OF OPTOMETRY & PARAMEDICAL TECHNOLOGY"

### SELECTION

Candidates will have to appear before a Broad of Selection Committee or an Entrance Examination will be done as per decision of the authority for selection.

### SEAT RESERVATION

10% seats shall be reserved for S.C./S.T./O.B.C. candidates in each course

### SESSION

The Courses are likely to commence on and from September every year.

### LANGUAGE

English will be the common language. However, every effort is made by Lecturers to present their subjects in words, which are easy to understand. Lecturers would always be ready to help any student, who has not understood.

## **APPARATUS**

The fullest opportunity will be provided to students to carry out Clinical Work themselves through each course.

## **UNIFORM**

Students must wear their prescribed Uniform. Students of Clinical Classes must have their own White Aprons.

## **LIBRARY**

The students will be permitted to avail themselves the facilities available in the College Library as per rules and regulations of College.

## **IDENTITY CARD**

All students will have to obtain Identity Card duly signed by the Administrator-cum-Principal. Every Student must carry his/her Identity Card along with him/her and produce the same on demand inside the College Campuses.

## **DISCIPLINE**

Any act of misconduct committed by student inside or outside the Campuses shall be act of violation of discipline of the college and any other act which may be considered by the management, Administrator-cum-Principal or Disciplinary Committee to be an act of violation of discipline.

## **PENALTIES**

- Written warning and information to the Parent/Guardian
- Fine Rs. 500/- or above
- Suspension/expulsion from the Department/O.P.D. and College
- Debarring from Examination, Participation in C.M.E. Programmes
- Information to Law Enforcing Authorities

## **PRIVATE TUITION**

Private tuition is not allowed by the Faculty Members. If special classes required, authority will arrange.

## **HOSTEL**

At present no hostel facilities are available in college campus

## **ATTENDANCE**

80% attendance in classes including Practical and O.P.D. duty is necessary for a collegiate student to appear in the Annual Examination. Below 80% attendance in classes will be treated as a Non-collegiate student. This category of students may be considered justified on facts and internal assessment and has to pay a requisite fees to appear the Annual Examination. Regular Periodical Examinations shall be conducted throughout the courses. In addition there shall be regular day-to-day assessment of student assignment.

## **EXAMINATION**

The Annual Examination will likely be held on July-August every year. The Student, who will not pass in all the subjects in the Annual Examination, will not be eligible for promotion in the next year. The Student who have failed in not more than two subjects, will be allowed to appear in the Supplementary Examination on payment of requisite fee per subject in next examination. The Student of outgoing first year, who have failed not more than two subjects may enrol his/her name in the 2nd year and may appear in 2<sup>nd</sup> year examination along with Supplementary Examination.

## **DIVISION**

- 1<sup>st</sup> Division : 60%
- 2<sup>nd</sup> Division : 50%
- Pass : 40%

### **COMPULSORY TRAINING IN GOVERNMENT HOSPITAL**

For compulsory Govt. hospital training of 2<sup>nd</sup> year, students have to pay the requisite Govt. fees. Government hospital will issue Training Completion Certificate.

### **INTERNSHIP**

After passing the final examination students have to complete their 6 (six) months Compulsory Internship in any Government Hospital and have to pay requisite Govt. fees as per norms.

### **MEMBERSHIP OF G.K.D.A.**

After completion of different courses, Associate Membership of Greater Kolkata Doctors' Association is necessary and compulsory.