Regional Cancer Centre, Thiruvananthapuram invites application for Certificate course in “Quality Excellence Programme in Pathology” for Medical Laboratory Technicians.

No of Seats : 3 (Three)

Duration : 1 year

Qualification : B.Sc (MLT) from a University recognized by the Kerala University or B.Sc with DMLT

Stipend : ₹ 3000/- P.M

Age : 35 years as on 01/01/2015. The upper age limit will be relaxed by 6 years for SC/ST and 2 years for OBC candidates

Application Fee : ₹ 100/- (₹ 25/- for SC/ST candidates.)

Filled in application* along with self attested copies of certificates to prove age, caste, qualification and experience, a DD for ₹ 100/- drawn in favour of the Director, Regional Cancer Centre and payable at Thiruvananthapuram should reach the Additional Director, Regional Cancer Centre, Medical College P.O, Trivandrum-11 on or before 30/01/2015.

* Please download the application form

Sd/-
ADDITIONAL DIRECTOR

No: 1342/Admn.III/2015/RCC
Date: 07/01/2015
**Prospectus**

"Quality Excellance Programme in Pathology "
for (Laboratory Technician)

**Course structure**
It is designed to give more stress to the practical aspect than the theoretical aspect. This is because the work related to Pathology lab is completely different from that of other departments i.e. skilled manual work is more compared to other departmental work.

Hands-on training is given in various technical procedures.

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<tr>
<th>Place of Posting</th>
<th>Duration of posting</th>
<th>Subjects Covered</th>
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| Reception                 | : 15 days           | Reception and labeling of specimens  
Public relation with patients / bystanders  
Proper payment information to the patients / bystanders regarding various pathologic investigations  
Attending telephone, Despatch of report   |
| Histopathology including Frozen section | 3 months | Reception and labeling of specimens  
Adequate fixation of specimens, preparation of routine and special purpose fixatives  
Assistance in grossing  
Procedures of tissue processing: infiltration and impregnation with wax.  
Microwave processing of tissues  
Different methods of embedding  
Different types of microtome and usage  
Microtome knives and sharpening  
Techniques of tissue sectioning  
Special tissue processing techniques: Eye, skin, teeth, bone etc.  
Decalcification  

Turn around time of each specimen  
Fresh frozen tissue sectioning (cryostat), and staining  
Maintenance of cryostat  
Routine and special stains (H&E, Mucicarmine staining, PAS with and without diastase, Reticulin staining, Van Giesons staining, Perl’s Prussian blue staining, Alcian blue staining, Phosphotungstic acid Haematoxylin staining, Fontana Masson silver staining for melanin, Melanin bleach technique, Gomori’s Hexamine (methenamine) silver staining, Gram’s... |
<table>
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<tr>
<th><strong>Cytopathology</strong></th>
<th>3 months</th>
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| Reception and labeling of specimens  
Adequate fixation of specimen, preparation of routine and special purpose fixatives including coating fixatives.  
Collection of gynecological specimens: vaginal smear, cervical smear, pool smear etc  
Preparation of non-gynecological specimens: Aspiration smears, sputum, serous effusions, CSF, urine, bronchial brushing, washing, and lavages, buccal smear, other body fluids, impression smears, cell block preparation etc.  
Assistance in FNAC collection procedure  
Slide preparation with routine stains: Pap stain, MGG stain, etc.  
Special staining of cytology specimen  
Preparation and maintenance of stains and reagents,  
Quality control measures in Cytopathology  
Laboratory safety measures in a Cytology laboratory.  
Organization of a Cytopathology Laboratory  
Automation in Cytopathology Laboratory: Cytocentrifuge, Monolayer preparation techniques, Slide stainer (Linear Type) etc.  |

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<th><strong>Hematopathology</strong></th>
<th>2 months</th>
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| Reception and labeling of specimens (bone marrow aspirate (BMA), bone marrow imprint (BMI), peripheral smear (PS))  
Routine hematological staining of BMA, BMI, and PS by Geimsa, Leishmann, and Myeloperoxidase stains etc.  
Cytochemical staining of BMA, BMI, PS by PAS, NSE, etc  
Preparation of stain solutions, reagents, etc  
Report despatch, filing of slide etc  |
| Immunohistochemistry | 2 months | Knowledge of various antibodies, labels, chromogens  
Antigen retrieval methods: microwave, pressure cooking, enzyme pretreatment methods  
Preparation of solutions, dilution of antibodies, etc.  
Various labeled methods for paraffin and frozen sections  
(Peroxidase Antiperoxidase (PAP) method, Alkaline phosphatase  
Anti alkaline phosphatase (APAAP) method, Avidin-Biotin affinity cytochemistry (ABC) , Envision system, Envision +, Labelled Strept Avidin Biotin( LSAB) Kit system,etc)  
Automated Immunostainers  
Trouble shooting in Immunopathology |
|-------------------------------|-----------------|-----------------------------------------------|
| Flow cytometry Laboratory | Sample collection and processing  
Antibodies and their dilution,  
Flow cytometry software: acquisition and analysis  
Report printing and despatch  
General maintenance of flow cytometer |
| Fluorescence In situ Hybridization (FISH) Laboratory | Sample collection and processing  
Addition of probes  
Fluorescent microscopy  
Reading of signals  
Report Printing and Quality control  
Maintenance of microscope  
CISH (Theory) |
| Molecular pathology Laboratory | DNA and RNA isolation  
PCR, Electrophoresis  
RT-PCR  
Gel Documentation  
Real Time PCR  
Theoretical knowledge of Tissue Micro array, Digital morphometry |

Discussion and Evaluation at the end of posting in each lab with the Course coordinator, concerned lab in charge and Pathologist

Seminars: Two

Final Examination: Theory, Practical and Viva

Award: Certificate will be issued at the end of the course
Regional Cancer Centre, Thiruvananthapuram

APPLICATION FORM

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<th>Name of the Course applied for</th>
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<th>Name of the Applicant (in block letters)</th>
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<th>Whether belong to SC/ST/OBC/General (Please Specify Religion &amp; caste)</th>
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<th>Name of Examination passed</th>
<th>Board / University</th>
<th>Reg.No</th>
<th>Year &amp; month of Passing</th>
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I hereby declare that the above entries are true to the best of my knowledge and belief

Place:                        Date:    SIGNATURE OF THE CANDIDATE