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AMALA INSTITUTE OF MEDICAL SCIENCES, THRISSUR

Affiliated to Kerala University of Health Sciences (KUHS)

SYLLABUS FOR PG SUPER SPECIALITY PROGRAMME

DOCTORATE OF MEDICINE(DM)/ MASTER OF CHIRURGIAE(MCh)

REGULATIONS2016

SYLLABUS

For Courses affiliated to the

Kerala University of Health Sciences

Thrissur 680596

SUPER SPECIALITY COURSE IN MEDICINE

DM Medical Oncology

Course Code 239

(2016-17 Academic year onwards)

2016

2. COURSE CONTENT

2.1 Title of course:

DM Medical Oncology

2.2 Objectives of course

GOAL

Provide specialized training in medical Oncology, including Hospital based oncology practice, Community Oncology development and Community intervention Strategies.

Instill the concept of wholesome management of a cancer patient.

Instill team spirit by involving the radiation oncologist, surgical oncologist, Nuclear medicine & allied imaging departments, palliative care specialists & pathologists as team players in all patients and other departments as & when necessary.

OBJECTIVES

At the end of the training program the candidate should have: -

1) Basic Scientific Principles – The trainee should have clear concepts regarding the basic principles of Biology of normal cells, basic processes of carcinogenesis, gene structure, expression and regulation, cell cycle and interaction with therapy, tumor cell kinetics, tumor cell proliferation, tumor immunology and molecular techniques.

2) Basic Principles in the Management and Treatment of Malignant Diseases – The trainee at the end of training program, should be thorough with the basic principles of malignant disease management including clear understanding of pathologic techniques, serum markers, cell membrane and DNA markers, TNM staging systems, Indications forclinical, radiographic and nuclear medicine procedures, response assessment.

3) Management and Treatment of Individual Cancers and their associated complications – After completion of the training program the trainee should be well versed with the management of all human cancers, chiefly Head and neck, Lung, Gastrointestinal, genitourinary, gynecological, breast, mesenchymal, skin, endocrine, neurological and hematological malignancies. He also needs to be competent in managing pediatric oncology patients.

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4) Psychosocial Aspects of Cancer – The trainee should become skillful in handling cultural issues, spiritual conflicts, adaptive behavior, coping mechanisms, communication.

5) Patient Education – The trainee should learn to consciously involve in educating the patients in matters of genetic counseling (screening and assessment of risk), health maintenance (Diet, smoking, alcohol consumption), long term complications, risk of treatment induced cancer, endocrine dysfunctions.

6) Bioethics, Legal, and Economic Issues – The trainee should be fully proficient in dealing with issues of taking informed consent for research activities, ethical conduct of medical research, legal issues (Life support and its withdrawal), cost efficiency and professional attitude.

7) Skills – During the training period the trainee should imbibe and develop the skills of anticancer agent administration (Prescribing, administering, Handling and disposal of chemotherapeutic and biologic agents), clinical procedures (bone marrow aspiration, biopsy, lumbar punctures, abdominal and thoracic paracentesis), ommaya reservoir management. He should be capable of treating pain & other symptoms associated with advanced malignancies.

8)Community responsibilities – He should be well versed with community aspects of cancer screening including cancer registry and other aspects of preventive oncology. He should become competent to plan and implement community intervention strategies and should be well trained to link up with the existing health care system and be able to address screening, early detection and health awareness issues.

9) Constant development – He should be aware of the recent developments in the field of Medical Oncology, chemotherapeutics, preventive oncology, molecular biology.

2.3 Medium of instruction:

The medium of instruction for the course shall be English.

2.4 Course outline

Present in clause “Content of each subject in each year “ of the curriculum.

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2.5 Duration

Every candidate seeking admission to the training programme to qualify for the degree of D.M in the subjects shall pursue a regular course as a full time student, in the concerned Department under the guidance of a recognized super speciality teacher for a period of three years. The course commences from 1st August in each year.

2.6 Syllabus

Present in clause "Content of each subject in each year " of the curriculum.

2.7 Total number of hours

Present in clause 2.9 of the curriculum.

2.8 Branches if any with definition

Present in clause "Content of each subject in each year " of the curriculum.

2.9 Teaching learning methods

TRAINING PROGRAM

The training program will aim to give the candidate a sound training of cardiac diagnosis and management. During the period of training they shall take part in all the activities of the department including ward rounds, lectures, seminars, teaching assignments, laboratory studies, surgical session and other duties assigned to them by the Head of the Department.

All candidates shall work as full time residents during the period of training.

The training program shall be updated as and when required. The training shall include:-

a) Active involvement in the diagnosis and management of patients both in the outpatient, coronary care unit and the wards.

b) Participation in lectures, seminars, journal clubs, clinical group discussions etc.

c) Exposure to basic and advanced diagnostic, therapeutic and laboratory techniques.

d) Exposure to biomedical statistics as applicable to basic research methodology

e Post graduate students shall maintain log books of the work carried out by them. The log books shall be checked and assessed every 6 months by the faculty members, with a view to assure the progress the candidate has made and spot the inadequacies if any.

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Out station training

Outstation training may be given if required. It should not exceed 2 months, the duration, center etc: - will be at the discretion of the Head of the department.

Teaching

All D.M students should take part in the teaching of the post graduate degree students of related subjects, undergraduate medical students and paramedical students and allied health science students posted in the department by rotation.

SKILLS

As a part of 'Hands on training', the following are the minimum stipulated requirements to be fulfilled by the candidate at the end of three-year training period in Medical Oncology. The candidate will maintain a logbook and take signatures of the concerned consultant involved in each case.

Region	***Level***	***No of Cases***	***Treatment***
Head and Neck	Supervised	20	Multidisciplinary Management of head and neck cancers
	Independently	30	
Breast	Supervised	30	Chemotherapy protocols
	Independently	50	
GI Cancers	Supervised	20	Chemotherapyfor major GI malignancies
	Independently	30	Like Ca stomach, Ca pancreas, Colorectal and hepatobiliary cancer
Gynecology Cancer	Supervised	10	Chemotherapy for gynaecological tumors
	Independently	30	

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Skin and Sarcomas	Supervised	10	Chemotherapy protocols
	Independently	25	
Hematological	Supervised and independently (AML/ALL/ Lymphomas)		
Germ Cell tumors			
Radiotherapy	Should have assisted in planning and treatment execution of at least 5 malignancies of different sites including at least one brachytherapy plan		

METHODS OF TRAINING

The candidate would spend the 3 years with the following structured rotations

Number of months	Department
24 months	Medical Oncology
2 months	Radiation Oncology and Nuclear Medicine
2 months	Molecualr Biology and Basic Science Lab
1 month	Pain and Palliative Care
2 months	Pediatric Oncology
1 month	Radiology
2 months	Bone Marrow Transplantation
2 months	Rotation to another Cancer Institute

2.10 Content of each subject in each year

Basic Science

Lectures on basic science as relevant to oncology.

1. Essential of Molecular Biology: Principles, Genomics and cancer, signal transduction ,Immunology , Cytogenices , cell Cycle , Apoptosis , Invasion and metastases,angiogenesis and Carcinogenesis:Genetices, viral , physical and chemical. Genomics and Proteomics , Destabilization of the Cancer, telomeres , Telomerase , and cell Immortalization , Cancer Stem Cells.
2. Epidemiology –epidemiological methods, descriptive nd analytical epidemiology.

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3. Principles of Cancer management; Surgical Oncology , Medical Oncology , Radiation Oncology and Biologic Therapy.
4. Cancer Therapy.
5. Pharmacology of Cancer Biotherapeutices –Interferon Interleukin , Hormonal Therapy, Differentiating agents, monoclonal antibodies, antiangiogenic factors.
6. Clinical Trials.
7. Cancer Prevention , Tobacco related cancers, diet , chemo prevention.
8. Cancer screening.
9. Cancer Diagnosis- Molecular pathologgy and Cytology , Imaging , Endoscopy.Laparoscopy.
10. Specialized techniques-vascular access, isolated perfusion , and Intensity Modulated Radiation therapy.
11. System Oncology:
    i. Head and neck Cancer
    ii. Lung Cancer
    iii. Mediastinal neoplasm
    iv. Gastrointestinal tract cancer
    v. Cancers of Genitourinary system
    vi. Gynecologic cancer
    vii. Breast cancer
    viii. Endocrine malignancies
    ix. Musculoskeletal tumours
    x. Sacomas of the Soft Tissue
    xi. Mesothelioma
    xii. Cancer of the skin
    xiii. Malignant Melanoma
    xiv. Central nervous system
    xv. Pediatric malignancies
    xvi. Lymphomas and Leukemia’s

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12. Paraneoplastics syndromes
13. Cancer of the Unknown primary
14. Peritoneal carcinomatosis
15. Cancer in immunosuppressed host.
16. Oncological emergencies – SVC syndrome, spinal cord compression , metabolic emergencies, urology emergencies.
17. Treatment of metastatic cancer-brain,lung,bone,liver,malignant Effusions and ascites.
18. Haemopoetic therapy –transfusion , grown factors, autologous and Allogenic stem cell transplantation.
19. Infection in the cancer patient.
20. Supportive care and quality of life-pain management , nutrition support , sexual problems , genetic counselling,psychological issues, community resources, care of the terminally ill patient.
21. Adverse effects of treatment-nausea and vomiting . Oral complications, pulmonary toxicity , cardiac toxicity , hair loss,gonadal dysfunction, recurrence, miscellaneous toxicity.
22. Rehabilitation of cancer patients.
23. Oncology nursing including various access routes.
24. Ethical Issues in Oncology.
25. Societal Issues in Oncology.
26. Information system in Oncology.
27. Alternative method in Cancer treatments.
28. New approaches in Cancer treatment- Gene therapy , Molecular therapy , Cancer vaccines, image guided surgery , heavy particles in Radiation therapy, Focused Ultrasound, RNA Inhibition, Charged Particle Therapy,Robotic Surgery, Nanotechnology.
29. Reconstructive surgery.

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2.11 No: of hours per subject

Present in clause 2.9 of the curriculum.

2.12 Practical training given

Clinical Experience

- Clinical work including chemotherapy , daily management . management of patient on chemotheraphy and palliative care for advanced malignancy patient.
- Weekly multi-disciplinary seminar so as to cover the topics of malignancies of Head & Neck, gastrointestinal tract , Thorax , Bones & soft tissue saecomas , Beast, Gyneocologic oncology and other miscellaneous sites- over a 36 month period.
- Once a month journal club presentation.
- Attendance to at least 2 oncology conference and 2 oncology CME during the period of 3 years.
- Involvement in clinical trials.
- A research project(thesis)
- Teaching and learning activities like seminar, symposium, Guest lecturers etc.

Diagnostic Skils

He should carry out diagnostic producers like bone marrow aspiration and biopsy, Lumbar Puncture, toracocentesis etc.

Chemotherapy treatment-aware of protocols and regimens.

As mentioned in the table on skills.

Internal assessment of the candidates: This will be done on a continual basis by the faculty with respect to the overall objectives of the course, and specifically with respect to their treatment skills, time spent with patients in pre & post treatment assessments, planning Chemotherapy, seminars, journal club & tumour board presentations.

2.13 Records

As per clause 2.21

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2.14 Dissertation: As per Dissertation Regulations of KUHS

Thesis is an absolute requirement for D.M course and the candidate has to register the thesis synopsis in the University through proper channel within 6 months of admission. Thesis has to be submitted to the University for Evaluation at least 6 months prior to the conduct of final examination. Modifications and resubmission should be done before writing the examination. Even if the guide is transferred/ retired, the thesis has to be continued under his/her guidance or entrust to another guide in case the original person is not willing to continue. In extra ordinary situations change of guide and change of thesis topic is permissible with prior permission from the University. Only after accepting the thesis, the candidate will be eligible for writing the examination. In addition to this, the student has to present at least one paper/poster in a regional /national / international conference of the concerned speciality during his three year course or at least one publication in a peer reviewed journal. Research paper should be approved by the Institutional Review Board/ Institutional Ethical Committee.

Evaluation of Thesis

The thesis shall be evaluated by a minimum of three experts; one internal and two external experts, who shall not be the examiners for the Theory and Clinical examination of the concerned candidates and it may be accepted/ accepted with modifications/rejected. Only on the acceptance of the thesis by two experts out of three, the candidate shall be permitted to appear for the University examination. If the thesis is not accepted on evaluation by at least two experts, it shall be resubmitted with suggested modifications along with prescribed fees within the prescribed time stipulated by the University from time to time and it shall be re-evaluated by the same experts. If thesis is rejected by two experts, the candidate will lose first chance for appearing in the University examination and has to redo a fresh thesis for further evaluation.

2.15 Speciality training if any

Present in clause “Content of each subject in each year “ of the curriculum.

2.16 Project work to be done if any

As stipulated by the Head of Department.

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2.17 Any other requirements [CME, Paper Publishing etc.]

- Should have attended minimum of two International/ National/ Zonal/State conferences or workshops concerned with the area of specialization.
- Should have presented at least one paper/poster in International/ National/ Zonal/State conferences concerned with the area of specialization.(as per MCI norms)

OR

- At least one publication in a peer reviewed journal or at least two research papers or original works should be submitted for publication in peer reviewed journals (as per MCI norms).

2.18 Prescribed/recommended textbooks for each subject

As prescribed by the Head of Department

2.19 Reference books

As prescribed by the Head of Department

2.20 Journals

Journal Title	Freq.	Publisher
Blood	weekly	American Society of Haematology
British Journal of Hematology	Biweekly	Wiley
Lymphoma and Leukemia	Monthly	Taylor and Francis
New England Journal of Medicine	Weekly	Massachusetts Medical University
Lancet	Weekly	Elsevier
Indian Journal of Medical and Pediatric Oncology	Quarterly	Medknow

The following is the list of journals for the proposed DM course in Medical Oncology.

S.No	Journal Title	Freq.	Publisher
1	Cllinics of North America	Q	W.B Saunders
2	Journals of Clinical Oncology	BM	W.B Saunders

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3	Lancet Oncology	M	Elsevier Science
4	Nature Clinical Pratice Oncology	M	Nature
5	Indian Journal of Cancer	Q	Medknow Publishers
6	Gynecologic Oncology	M	Elsevier Science
7	Annals of Oncology	10/Yr	Elsevier Science
8	CA: a cancer journal for clinicians	BM	Lippincott Williams and Wilkins
9	Cancer Treatment Reviews	BM	W.B Saunders
10	Journal of Experimental & Clinical cancer Research	Q	Regina Elena Institute for Cancer Research(Italy)
11	Cancer Control	BM	Mosfitt Cancer Center and Research Institute
12	Cancer	30/yr	John Wiley & Sons
13	British Journal of Cancer	SM	Churchill Livingston
14	Acta Oncologica	8/yr	Taylor and Francis
15	Current Problems in Cancer	BM	Elsevier Science
16	Current Opinion in Oncology	BM	Elsevier Science

Abbreviations used

W Weekly

M Monthly

SM Semi monthly

BM Bimonthly

Q Quarterly

I Indian

F Foreign

2.21 Logbook

A log book is mandatory and has to be maintained by all students and this has to be reviewed by HOD / Unit Chief of the department regularly (at least quarterly). Minimum

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number of each of the academic activities to be performed by the candidate should be outlined for each speciality. Model check list for journal review/seminars/topic presentation/ teaching skill etc: - is shown in the appendix. Periodic formative assessment has also to be done in the department by the super speciality teachers. Log book will be evaluated during the University examination by all the four examiners with a maximum total mark of 20 in the viva component *(Check Lists appended)*

Maintenance of a logbook of cases worked up, assisted , done, administered , Chemotherapy and palliative care cases.

3.EXAMINATIONS

3.1 Eligibility to appear for exams

The examinations shall be organised on the basis of marking system to evaluate and certify candidate's level of knowledge, skill and competence at the end of the training.

A candidate should appear for all the theory examinations and obtaining a minimum aggregate of 50% marks in theory part and practical part (Practical & Viva) separately shall be mandatory for passing the whole examination.

ELIGIBILITY FOR APPEARING IN FINAL EXAMINATION

i. A minimum of 80% attendance during each year of the course separately.

ii. Successful Submission of completed Logbook.

iii. Submission of Dissertation and its approval by the University.

iv. Should have attended minimum of two International/ National/ Zonal/State conferences or workshops concerned with the area of specialization.

v. Should have presented at least one paper/poster in International/ National/ Zonal/State conferences concerned with the area of specialization.(as per MCI norms).

or

At least one publication in a peer reviewed journal or at least two research papers or original works should be submitted for publication in peer reviewed journals (as per MCI norms).

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vi. The prescribed form (annexure 3) for each candidate should be filled up by concerned department and sent to KUHS for issuing hall ticket for the candidate to appear for the examination. If the candidate fails to meet the criteria, he will not be permitted to appear for the examination.

3.2 Schedule of Regular/Supplementary exams

Generally there shall be two university examinations in a year, one regular and one supplementary examinations with a usual gap of six months.

3.3 Scheme of examination showing maximum marks and minimum marks

There shall be theory, practical examination including viva voce at the end of the three year course. Theory examination shall consist of four papers (3 hours duration) including one on recent advances and each paper will carry a maximum of 100 marks. Each question paper shall consist of one essay question of 20 marks and 8 short essays of 10 marks each. There shall be a multiple evaluation of theory papers by two internal examiners and two external examiners and the average mark for each paper is taken as the final marks.

Sl.No.	Subject	Theory		Theory Group		Practical				Practical Group		Total	
		University				University		Viva					
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	Paper I	100	-										
2	Paper II	100	-										
3	Paper III	100	-	**400**	**200**	**300**		**100**		**400**	**200**	**800**	**400**
4	Paper IV	100	-										

3.4 Papers in each year

Not applicable

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3.5 Details of theory exams

As per clause 3.3

Paper 1: Basic science as applied to Medical Oncology.

Paper 2: Medical Oncology – I (Breast, Gynaecology, Genito-urinary, GI and Pediatric malignancies)

Paper 3: Medical Oncology – II (Head & Neck, Thorax, skin, soft tissue & bone, lymphomas and miscellaneous)

Paper 4: Recent advances in oncology and palliative care

3.6 Model question paper for each subject with question paper pattern

QP Code: **Reg.No.:……**

D.M. (Medical Oncology) Degree Examinations

(Model Question Paper)

Paper I – Basic Science in Medical Oncology

Time: 3 hrs **Max marks:100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays: (20)

1. Describe cancer cell kinetics and principles of chemotherapy in detail

Short essays: (8x10=80)

2. Molecular events in apoptosis.
3. Hereditary cancers
4. Meta analysis
5. Polymerase chain reaction
6. Growth factors
7. Pulmonary toxicity due to anti cancer agents
8. IMRT
9. Chimerism

QP Code: **Reg.No.:……**

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D.M. (Medical Oncology) Degree Examinations

(Model Question Paper)

Paper II – Medical Oncology – 1

(Breast, Gynaec, Genito urinary, Gastrointestinal and Pediatric oncology)

Time: 3 hrs **Max marks:100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays: (20)

1. Outline the WHO classification of ovarian tumours. Discussthe role of neoadjuvant and adjuvant chemo therapy in epithelial tumours of ovary.

Short essays: (8x10=80)

2. Adjuvant treatment of colon cancer
3. Neoplastic meningitis
4. Screening for Ca cervix
5. Wilm's tumour
6. Epidemiology of stomach cancer
7. Seminoma of testes
8. Management of hormone refractory prostate cancer
9. Gestational trophoblastic disease

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QP Code: **Reg.No.:……**

D.M. (Medical Oncology) Degree Examinations

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(Model Question Paper)

Paper III – Medical Oncology- 2

(Head & Neck, Thorax, Bone & soft tissue, skin, Hemato oncology, Miscellaneous)

Time: 3 hrs **Max marks:100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays: (20)

1. Describe in brief the unique pathophysiology of acute promyelocytic leukemia (APML). Discuss the current standard approach and treatment of APML.

Short essays: (8x10=80)

2. Unknown primary tumour.
3. Tumour lysis syndrome
4. Nodular lymphocyte predominant Hodgkin's lymphoma
5. Diagnostic criteria for multiple myeloma
6. Imatinib resistance in CML
7. Ewing's sarcoma
8. Role of chemotherapy in head and neck cancer
9. Anaplastic large cell lymphoma

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QP Code: **Reg.No.:……**

D.M. (Medical Oncology) Degree Examinations

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(Model Question Paper)

Paper IV – Recent Advances in Medical Oncology & Palliative Care

Time: 3 hrs **Max marks:100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays: (20)

1. Discuss the indications, contra indications, methodology and complications of allogenic bone marrow transplantation

Short essays: (8x10=80)

2. Nanotechnology in oncology.
3. Differentiating agents in the treatment of cancer
4. Role of PET scan in the management of lymphomas
5. Opiods in pain management
6. Proteosome inhibitors
7. Total parenteral nutrition
8. Metronomic chemotherapy
9. Cancer cachexia

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3.7 Internal assessment component

Not applicable.

3.8 Details of practical/clinical practicum exams

Practical/Clinical examination shall consist of:

i. 1 long case –100 marks
ii. 2 short cases –80 marks each = 160 marks
iii. Ward rounds –40 marks

Viva voce –80 marks
Log Book 20 marks
Total 100 marks

Total Marks Practicals & Viva Voce – 400 marks

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Long case discussion may take a maximum of 1 hr, short cases (total cases 2) - maximum 1 hr, ward rounds – maximum 30 minutes and Viva voce maximum of 1 hr. Maximum number of candidates that can be examined per day may be restricted to 3.

3.9 Number of examiners needed (Internal & External) and their qualifications

Examiners

1. All Examiners shall be a recognised super speciality teacher as per MCI norms. Thereshall be two internal examiners (from affiliated colleges of KUHS) and two external examiners (exclusively from outside the state). In departments where there are more than 2 professors, the head of the department preferably be a constant member of the board of examiners, and the other professors shall be posted as internal examiners on rotation basis.

2. Under exceptional circumstances, examinations may be held with 3 (three) examiners provided at least two of them is an external examiner subject to the ratification of the pass board.

3. In the event of there being more than one centre in one city, the external examiners at all the centres in that city shall be the same. Where there is more than one centre of examination, the University shall appoint a Co-ordinator/Convenor to coordinate the examination on its behalf.

3.10 Details of viva

Viva voce	:80 Marks
Log book	**:20 Marks**
Total	**:100 Marks**

4.INTERNSHIP

Not applicable for Medical Superspecality degree courses.

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4 ANNEXURES

4.1 Check Lists for Monitoring: Log Book, Seminar Assessment etc.

ANNEXURE - 1

CHECK LIST 1 - EVALUATION OF CLINICAL WORK

Name of the Trainee: Date:

Name of the Faculty:

Sl. No.	**Items for observation during evaluation**	*Poor* *0*	*Below Average* *1*	*Average* *2*	*Good* *3*	*Very Good* *4*
1.	*Regularity of attendance*					
2.	*Punctuality*					
3.	*Interaction with colleagues and supportive staff*					
4.	*Maintenance of case records*					
5.	*Presentation of cases*					
6.	*Investigations work -up*					
7.	*Bed - side manners*					
8.	*Rapport with patients*					
9.	*Counseling patients relatives for interventional procedures*					

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10.	*Overall quality of clinical work*					
	Total score					

ANNEXURE - 2

CHECK LIST 2 EVALUATION OF CLINICAL CASE PRESENTATION

Name of the Trainee: *Date:*

Name of the faculty:

Sl. No	**Items for observation during presentation**	*Poor*	*Below Average*	*Average*	*Good*	*Very Good*
		0	*1*	*2*	*3*	*4*
1.	**Completeness of history**					
2.	**Whether all relevant points elicited**					
3.	**Clarity of presentation**					
4.	**Logical order**					
5.	**Mentioned all positive and negative points of importance**					
6.	**Accuracy of general physical examination**					

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7.	**Whether all physical signs elicited correctly**					
8.	**Diagnosis: whether it follows logically**					
9.	**Investigations required** **In Relevant order**					
10	**Interpretation of Investigations**					
11	**Ability to discuss differential diagnosis.**					
12	**Discussion on management**					
	Grand Total					

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ANNEXURE 3

CHECK LIST 3

EVALUATION OF SEMINAR PESENTATION

Name of the Trainee: Date:

Name of the Faculty:

Sl no	Items for observation during presentation	*Poor*	*Below Average*	*Average*	*Good*	*Very Good*
		0	*1*	*2*	*3*	*4*
1	***Whether other relevant publications consulted***					
2	***Whether cross - references have been consulted***					
3	***Completeness of Preparation***					
4	***Clarity of Presentation***					
5	***Understanding of subject***					
6	***Ability to answer the questions***					
7	***Time scheduling***					
8	***Appropriate use of Audio - Visual aids***					
9	***Overall performance***					
10	***Any other observation***					
	Total score					

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ANNEXURE - 4

CHECK LIST 4

EVALUATION OF JOURNAL REVIEW PRESENTATIONS

Name of the Trainee: **D a t e :**

Name of the Faculty:

		0	*1*	*2*	*3*	*4*
1.	*Article chosen*					
2.	*Extent of understanding of scope & objectives of the paper by the candidate*					
3.	*Whether cross-references have been consulted*					
4.	*Whether other relevant publications consulted*					
5.	*Ability to respond to questions on the paper/ subject*					
6.	*Audio - Visual aids used*					
7.	*Ability to discuss the paper*					
8.	*Clarity of presentation*					
9.	*Any other observation*					
	Total Score					

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ANNEXURE - 5

CHECK LIST 5

EVALUATION OF TEACHING SKILL

Name of the Trainee: **Date:**

Name of the faculty:

Sl. No.	**Items for observation**	**Strong Points**	**Weak Points**
1.	*Communication of the purpose of the talk*		
2.	*Evokes audience interest in the subject*		
3.	*The introduction*		
4.	*The sequence of ideas*		
5.	*The use of practical examples and / or illustrations*		
6.	*Speaking style (enjoyable, monotonous, etc. Specify)*		
7.	*Attempts audience participation*		
8.	*Summary of the main points at the end*		
9.	*Ask questions*		
10.	*Answer questions asked by the audience*		
11.	*Rapport of speaker with his audience*		
12.	*Effectiveness of the talk*		
13.	*Uses AV aids appropriately*		

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ANNEXURE - 6

CHECK LIST 6

EVALUATION OF DISSERTATION PRESENTATION

Name of the Trainee: Date:

Name of the faculty / Observer:

Sl.No	**Points to be considered**	**Poor** *0*	*Below Average 1*	*Average 2*	*Good 3*	*Very Good 4*
1.	*Interest shown in selecting topic*					
2.	*Appropriate review*					
3.	*Discussion with guide and other faculty*					
4.	*Quality of protocol*					
5.	*Preparation of Proforma*					
	Total Score					

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ANNEXURE - 7

CHECK LIST 7

CONTINUOUS EVALUATION OF DISSERTATION WORK

Name of the Trainee: **Date**

Name of the Faculty:

Sl. No.	**Items for observation during presentation**	**Poor**	*Below Average*	*Average*	*Good*	*Very Good*
		0	*1*	*2*	*3*	*4*
1.	*Periodic consultation with guide / co- guide*					
2.	*Regular collection of case material*					
3.	*Depth of Analysis / Discussion*					
4.	*Department presentation of findings*					
5.	*Quality of final output*					
6.	*Others*					
	Total score					

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ANNEXURE - 8

CHECK LIST 8

OVERALL ASSESSMENT SHEET

Name of the College: Date:

Check list no	***Particulars***	***0***	***1***	***2***	***3***	***4***
1	***Clinica lwork***					
2	***Clinical presentation***					
3	***Seminars***					
4	***Journal review***					
5	***Teaching skill***					
6	***Dissertation work***					
	TOTAL					

0- Poor 1- Below average 2- Average 3- Good 4- Very good

Signature of HOD Signature of Principal

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ANNEXURE - 9

TABLE 1

ACADEMIC ACTIVITIES ATTENDED

Name:

Admission Year: **College:**

Date	**Type of activity - Specify Seminar, Journal club, Presentation, UG teaching**	**Particulars**

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LOG BOOK

TABLE 2

ACADEMIC PRESENTATIONS MADE BY THE TRAINEE

Name :

Admission Year:

College:

Date	**Topic**	Type of activity - Specify Seminar, Journal club, Presentation, UG teaching

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LOG BOOK

TABLE 3

DIAGNOSTIC AND OPERATIVE PROCEDURES PERFORMED

Name

Date	*Name*	*OP No.*	*Procedure*	*Category* *O, A, PA, PI*

Key:

O - OBSERVED

A - ASSISTED A MORE SENIOR SURGEON

PA - PERFORMED PROCEDURE UNDER SUPERVISION

PI - PERFORMED INDEPENDENTLY

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APPENDIX 111 - FINAL EXAMINATION ELIGIBILITY FORM

(To be filled up the candidate)

Name of the candidate :

Date of Joining :

Identification number or registration number of university :

Course :

Institution :

Eligibility criteria :

Sl No	Parameter	Details	Proof enclosure
1.	Attendance	1st year (minimum 80%) 2nd year(minimum 80%) 3rd year(minimum 80%)	
2.	Thesis	Approved/Not Approved by the University	
3.	Log book	Successfully completed and submitted	
5.	Conferences attended	Number and category : Number of presentations:	
6.	Publications	Number published: Number submitted:	

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All the informations provided above are true to the best of my knowledge and if found contrary, I am clearly aware that strict disciplinary actions will be initiated including debarring from examination.

Date Signature of the candidate :

Place Name of the candidate :

Countersigned by:

Faculty as guide:

Name:

Designation:

APPROVAL OF HEAD OF THE DEPARTMENT

I , Dr……, herewith approve that the above candidate is eligible to appear for the final examination as per the documentary evidences provided and best of the knowledge and documents of the department.

Date Signature :

Place Name :

Designation :

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