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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 Cardiology

Course Code 227

(2016-17 Academic year onwards)

2016

2. COURSE CONTENT

2.1 Title of course:

DM Cardiology

2.2 Objectives of course

Goal

The goal of postgraduate medical education shall be to produce competent specialists and/or Medical teachers.

i. Who shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy

ii. Who shall have mastered most of the competencies, pertaining to the speciality, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system;

iii. Who shall be aware of the contemporary advances and developments in the discipline concerned.

iv. Who shall have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology

v. Who shall have acquired the basic skills in teaching of the medical and paramedical professionals.

General objectives of Super Speciality training

At the end of the super speciality training in the discipline concerned, the student shall be able to:

i. Recognize the importance to the concerned speciality in the context of the health needs of the community and the national priorities in the health section.

ii. Practice the speciality concerned ethically and in step with the principles of primary health care.

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iii. Demonstrate sufficient understanding of the basic sciences relevant to the concerned speciality.

iv. Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive and promotive measure/strategies.

v. Diagnose and manage majority of the conditions in the speciality concerned on the basis of clinical assessment, and appropriately selected and conducted investigations.

vi. Plan and advice measures for the prevention and rehabilitation of patients suffering from disease and disability related to the speciality.

vii. Demonstrate skills in documentation of individual case details as well as morbidity and mortality rate relevant to the assigned situation.

viii. Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behaviour in accordance with the societal norms and expectations.

ix. Play the assigned role in the implementation of national health programme, effectively and responsibly.

x. Organize and supervise the chosen/assigned health care services demonstrating adequate managerial skills in the clinic/hospital or the field situation.

xi. Develop skills as a self-directed learner, recognize continuing education needs; select and use appropriate learning resources.

xii. Demonstrate competence in basic concepts of research methodology and epidemiology, and be able to critically analyze relevant published research literature.

xiii. Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.

xiv. Function as an effective leader of a health team engaged in health care, research or training.

The goal of post graduate medical education in cardiology — DM (Doctor of Medicine) CARDIOLOGY — is to provide competent cardiologists who shall recognize the health needs of the community and carry out professional obligations ethically and in keeping with the objectives of national health policy. They shall have mastered most of the competencies in cardiology that are required for the cardiology practice at the tertiary levels of health care

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system. They shall also have acquired the basic skills in teaching of the medical and paramedical professionals. The major components of the curriculum shall be theoretical knowledge, practical and clinical skills, thesis skills, attitude skills and training in research methodology.

2.3 Medium of instruction:

The medium of instruction for the course shall be English.

2.4 Course outline

As per clause 2.10 of the curriculum**.**

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

As per clause "content of each subject in each year " of the curriculum**.**

2.7 Total number of hours

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

2.8 Branches if any with definition

Not applicable

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:-

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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) Participation in research work in cardiology.

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

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

f) 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.

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.

2.10 Content of each subject in each year

Adequate knowledge should be obtained in the following fields of Cardiovascular Medicine:

1) **Applied anatomy** including embryology and development, functional anatomy of heart and great vessels, systemic and pulmonary circulations, histology of cardiovascular structures, biology of vessel wall.

2) **Applied Physiology**: Cardiac cycle, circulatory hemodynamics, cardiac contractility, pulmonary circulation, coronary circulation, blood pressure, biocontrol mechanisms, electrophysiology, cardiac failure, acid base balance, hemostasis & coagulation pathways, and sports physiology.

3) **Applied Pathology**: Congenital heart disease, classification and pathophysiology, rheumatic fever, valvular lesions, myocarditis, cardiomyopathies, pericarditis, constrictive pericarditis, bacterial and infective endocarditis, viral agents in heart disease, autoimmune mechanisms, coronary artery disease, myocardial infarction, hypertensive heart disease, pulmonary embolism, pulmonary hypertension, extrinsic heart diseases, cardiac tumors, electron microscopy in heart disease.

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4) **Applied Pharmacology**: Principles of drug therapy, cardiac glycosides, antihypertensive, diuretics, antianginals, inotropic agents, antibiotics, antiarrhythmic agents, anticoagulants, anti-platelet drugs, fibrinolytic agents and other drugs used for cardiovascular drug therapy

5) **Microbiology** relevant to cardiovascular infections and related entities.

6) **Cardiovascular Molecular Biology and Genetics**: Genetics of various Cardiovascular Diseases & Tissue regeneration of cardiovascular system & stem cells.

7) **Cardiovascular Investigations**: The candidate shall obtain adequate knowledge on simple and advanced cardiovascular investigations: electrocardiography (ECG), exercise stress testing, Holter recording, Signal averaged ECG echocardiography (including transesophageal), chest radiograph in cardiovascular disease, nuclear cardiology, cardiovascular magnetic resonance, computed tomography of the heart and blood vessels, C and blood vessels, cardiac catheterization: coronary angiography and coronary intravascular imaging, hemodynamic measurements, cardiac electrophysiology testing, pacemaker, ICD and CRT evaluation.

8) **Cardiovascular Diseases**: They should develop firm understanding of the following cardiovascular diseases : acute & chronic heart failure, end-stage heart disease, arrhythmias, sudden death, syncope, hypotension, shock, cardiac arrest and sudden cardiac death; atherosclerotic cardiovascular disease, ST-elevation myocardial infarction, unstable angina and non ST-elevation myocardial infarction, chronic coronary artery disease, rheumatic fever, valvular heart diseases, risk factor management for atherothrombotic disease, systemic hypertension, lipoprotein disorders, diseases of aorta, peripheral arterial diseases, prevention and management of stroke, heart disease associated with diabetes & metabolic syndrome, cardiomyopathies, myocarditis, cardiovascular abnormalities in HIV-infected individuals, toxins and the heart, tumors of heart, pericardial diseases, traumatic heart disease, pulmonary embolism, pulmonary hypertension, sleep disorders and cardiovascular disease; cardiovascular disease in women, pregnancy and other special populations; cardiovascular disease in endocrine disorders, rheumatic diseases, cancer, neurological disorders, renal disease, autonomic disorders, exercise related cardiovascular disorders and circulatory assist devices, catheter –based percutaneous cardiovascular interventions, fundamentals of cardiac surgery, anesthesia and non-cardiac surgery in patients with heart disease, preventive cardiology including nutrition management & exercise-based comprehensive cardiac rehabilitation & psychiatric behavioral aspects of cardiovascular disease.

They should develop concepts of economics and cost-effectiveness in cardiology and assessment and improvement of quality of cardiac care delivered.

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2.11 No: of hours per subject

Not applicable as the course is a Residency programme

2.12 Practical training

The training pattern during the 3 year period shall be approximately as follows:

1. Ward and outpatient work : 6 months
2. ICCU training : 6 months
3. Invasive and non invasive lab training : 20 months
4. Cardiac surgery training : 2 months
5. Posting to an external center of excellence : 1 to 2 months

(The duration and choice of the center shall be decided be the Head of the Department).

During the period of practical training, the candidate should have acquired:

1. Adequate training in physical evaluation of the patients in the CCU, wards and outpatient settings by eliciting history and physical findings and synthesizing diagnosis and differential diagnosis, planning relevant investigations, prognostication and management

2. Adequate training in performing and/or interpreting various cardiovascular investigative modalities

3. Adequate exposure to catheter- based percutaneous interventions like angioplasty, stenting, valvuloplasty, congenital heart disease interventions, electrophysiologic studies and ablations and pacemaker implantations.

4. Exposure to cardiac surgery.

5. Teaching experience by taking class and demonstration for undergraduate, postgraduates and paramedical professionals

2.13 Records

As given in clause “Logbook “

2.14 Dissertation: As per Dissertation Regulations of KUHS

Thesis is an absolute requirement for D.Mcourse 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

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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

As per 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 the Department.

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

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- 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 stipulated by Head of Department

2.19 Reference books

As stipulated by Head of Department

2.20 Journals

As stipulated by Head of Department.

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 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).*

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.

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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).

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	-	**400**	**200**	**300**		**100**		**400**	**200**	**800**	**400**
2	Paper II	100	-										

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3	Paper III	100	-										
4	Paper IV	100	-										

3.4 Papers in each year

Not applicable

3.5 Details of theory exams

Duration 3 hours each

As per clause 3.3

Theory:

Paper I - Basic Sciences

Paper 2 - Clinical Cardiology

Paper 3 - Cardiac Investigations and Therapeutics

Paper 4 - Recent Advances in Cardiology

3.6 Model question paper for each subject with question paper pattern

QP Code: **Reg.No:**

D.M. (Cardiology) Degree Examinations

(Model Question Paper)

Paper I – Basic Sciences

Time: 3 hrs Max marks:100

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

Essays: (20)

1. Discuss the development, anatomy and congenital abnormalities of the cortruncal system.

Short essays: (8x10=80)

2. Concealed conduction
3. Hibernating myocardium
4. Structure of myocardium in relation to contractility
5. Pathophysiology of pulsus alternans
6. Role of infections in athensclerotic cardiovascular disease

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7. Nitric oxide
8. Cardiac apoptosis
9. Genetics of hypertrophic cardiomyopathy

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QP Code: **Reg.No:**

D.M. (Cardiology) Degree Examinations
(Model Question Paper)
Paper II – Clinical Cardiology
Time: 3 hrs Max marks:100
• Answer all questions
• Draw diagrams wherever necessary

Essays: (20)

1. Discuss the pathophysiology, diagnostic evaluation and management of restenosis after revascularization procedures.

Short essays: (8x10=80)

2. Determination of situs in congenital heart disease
3. Importance of fugulae venous pulsation in clinical cardiology
4. Assessment of severity of pulmonary stenosis
5. Life style modifications for optimizing cardiovascular risks
6. Compensatory ductus attereosus
7. Athlete's heart
8. Refractory hypertension
9. Pregnancy and prosthetic cardiac valves.

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QP Code: **Reg.No.:**

D.M. (Cardiology) Degree Examinations
(Model Question Paper)
Paper III – Cardiac Investigations and Therapeutics
Time: 3 hrs Max marks:100
• Answer all questions
• Draw diagrams wherever necessary

Essays: (20)

1. Discuss the role of audio frequency ablation in the management of tachyarrhythmias

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Short essays: (8x10=80)

2. Plasma natriuretic peptides and its role in cardiovascular disease
3. Role of multislice CT in coronary artery imaging
4. Assessment of diastolic dysfunction of the heart
5. Newer antiplatelet agents
6. Clinical utility of intra vascular ultrasound (IVUS)
7. Surgery for ebsteins anomaly
8. Homocysteine and cardiovascular disease
9. Total ischemic burden.

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QP Code: **Reg.No:**

D.M. (Cardiology) Degree Examinations

(Model Question Paper)

Paper IV – Recent Advances in Cardiology

Time: 3 hrs Max marks:100

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

Essays: (20)

1. Describe the classification of bifurcation lesions with reference to technical difficulties in intervention and discuss the techniques in bifurcation angioplasty

Short essays: (8x10=80)

2. Current status of renal artery revascularization
3. Applications of telemedicine in cardiology
4. Stem cell therapy – current concepts
5. Endothelin antagonists
6. Ventricular arsist devices
7. Percutaneous mitral valve repair
8. Insulin seretogoques and insulin sensitisers in cardiovascular disease
9. Role of tissue Doppler imaging in cardiovascular diagnosis.

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3.7 Internal assessment component

Not applicable.

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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

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. aximum 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. There shall 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**

Viva voce: Shall cover all branches of cardiology

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4 .INTERNSHIP

Not applicable for Medical Superspecality degree courses.

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*					
10.	*Overall quality of clinical work*					

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	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**					
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**					

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	Grand Total	

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:

Sl. No	**Items for observation during presentation**	*Poor*	*Below Average*	*Average*	*Good*	*Very Good*
		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:	

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 :

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