

**Dr. JHANSI CHARLES, M.D.,
REGISTRAR**

Rc.No. AI(3)/48325/2013

Dated:31.1.2014

To

The Deans/Principals of the
PG Medical Colleges (affiliated to this University)
PG Clinical and Non Clinical.

Sir/Madam,

Sub: Academic – The Tamil Nadu Dr. M.G.R Medical
University, Chennai – Resolutions of various
Academic issues passed in the 47th Meeting of the
Standing Academic Board held on 18.12.2013 –
Communicated – Reg.

Ref: 1) Minutes of the Standing Academic Board
under held on 18.12.2013.
2) Resolution no. 36, passed at the 222th GC
meeting held on .

I am to inform that in the 47th Meeting of the Standing Academic Board held on 18.12.2013, the following academic issues relating to PG Medical courses have been discussed; resolutions have been passed and the same was also approved in the 225th Governing Council Meeting held on 07.1.2014

1) AGENDA directly placed in the SAB.

**TO INFORM ABOUT THE IMPLEMENTATION OF GUIDELINES FOR
DISSERTATION FOR ALL POST GRADUATE DEGREE COURSES FROM THE
APRIL 2014 EXAMINATION ONWARDS, AS PER RESPECTIVE COUNCIL NORMS.**

The action of the University framing guidelines for dissertation for all Post Graduate Degree Courses based on the norms of the respective Central Councils as approved by the 223rd Meeting of the Governing Council held on 26.9.2013, is ratified and the same be implemented from April 2014 examination onwards

From April 2014 Examination onwards, the certificate as below should be attached in addition to the existing certificates in the dissertations submitted as a part of their curriculum by all the candidates.

This is to certify that the dissertation entitled “<Title of the Dissertation> is a bonafide work done <name of the candidate and institution> in partial fulfillment of the University rules and regulations for award of < Name of the Degree course> under my guidance and supervision during the academic year ≤ academic year>

Name & Signature of the Guide

Name & Signature of the Head of Department

Name & Signature of the Dean

2. BOARD OF STUDIES IN PG CLINICAL

The Standing Academic Board has approved the following resolutions for the agenda placed in the Board of Studies Meeting for Post Graduate Clinical Courses which was held on 07.11.2013. The resolutions passed in the Board of Studies for PG Clinical will be given effect from 2014 Examination onwards.

Agenda No.i

IMPLEMENTATION OF EXTRA SKILLS FOR ALL POST GRADUATE MEDICAL DEGREE/DIPLOMA CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2012-13 SHALL BE MODIFIED AS DETAILED BEOW:

Resolutions:

One publication in Med-ej is mandatory;

Should present minimum of one oral/poster presentation in a Conference

– State/Zonal/National – Concerned Heads of the Department should submit the list of candidates who have participated in the conference with the necessary details to the University along with the Attendance..

The workshop in Biomechanical skills stipulated for Orthopaedics Post Graduate/Diploma candidates can be included in the Directly Observed Procedural Skills [DOPS];

Agenda No.ii

MAINTENANCE & E-SUBMISSION OF MONTHWISE PERFORMANCE REPORT FOR ALL POST GRADUATE DEGREE/ DIPLOMA CANDIDATES.

Resolution:

The Performance of all the Post Graduate Degree/Diploma candidates can be assessed based on the Log Book maintained and submitted during the Clinical Examination

Agenda No.iii

MEDICAL / CLINICAL AUDIT AND CREDIT POINTS FOR CME MANDATORY FOR MEDICAL-POST GRADUATE DEGREE/DIPLOMA CANDIDATES

Resolution:

Acquiring credit points is mandatory for all the Post Graduate Degree/ Diploma students.

-4-

Medical Post Graduate students – 50 credit points

Diploma students - 40 credit points

The Standing Academic Board resolved that for medical PG Degree/Diploma candidates, clinical audit need not be mandatory.

Agenda No.iv

THE DISTRIBUTION OF VIVA MARKS, TIME AND TOPICS TO BE EXAMINED DURING PRACTICAL EXAMINATION BY EACH EXAMNER FOR POST GRADUATE COURSES

Resolution:

OSCE / OSPE questions shall be framed by the Internal and External Examiner together on the day of the Examination.

The No. of cases to be kept for Clinical Examinations shall be as per the Regulations of the Medical Council of India.

Any other item placed in the Board of Studies in PG Clinical and approved in the standing academic Board.

- Uniform Log Book format should be formulated by the University based on the National Board Log Book as model.
- The workshop for the Research Methodology including Biostatistics can be conducted by the qualified faculties of the affiliated Institutions covering all the topics as furnished below:

- ⇒ Introduction to Epidemiology & Research Methodology
- ⇒ Introduction to Bio-Statistics
- ⇒ Sampling Techniques
- ⇒ Measures of disease frequency
- ⇒ Study design & Descriptive studies
- ⇒ Case control and Cross-Sectional study
- ⇒ Cohort Study
- ⇒ Clinical Trials
- ⇒ Qualitative Research
- ⇒ Questionnaire Development
- ⇒ Diagnostic Test
- ⇒ Bias in Clinical Research
- ⇒ Sample size Calculation
- ⇒ Test of significance
- ⇒ Protocol Development
- ⇒ Meta Analysis
- ⇒ What test to do, when
- ⇒ Regression and Correlation
- ⇒ How to write and publish an article
- ⇒ Collecting and handling data
- ⇒ Plagiarism/Exercises
- ⇒ Scientific Package for Social Science
- ⇒ Medical Ethics
- ⇒ Survival analysis

3. BOARD OF STUDIES IN PG NON CLINICAL

The Standing Academic Board has also approved the following resolutions for the agenda placed in the Board of Studies Meeting for Post Graduate Non Clinical Courses which was held on 08.11.2013. The standing academic board also resolved that the modifications recommended by the Board of Studies PG Non Clinical shall be given effect from April, 2014 examination onwards.

Agenda No. i - DIRECTLY OBSERVED PROCEDURAL SKILLS:

Resolution:

In the existing Non-Clinical speciality practical Examination, the exercises are always procedures directly observed and evaluated by the Examiners/ Hence, the Board unanimously recommends that DOPS is already in practice, though not called by the same name called DOPS. Hence, no modification is needed in the existing pattern of Non-Clinical Speciality practical Examinations.

Agenda No.ii OSPE:

Resolution:

The present process of OSPE has resulted in dilution of the existing standards of the Pre-Clinical and Para-Clinical speciality practical Examinations. The Board recommends allocation of 20 marks to OSPE segment in the present pattern of Practical Examination and rest of the marks be allocated to other segments given by the members of the concerned specialities which is annexed to this minutes.

Agenda No.iii - THEORY QUESTION PAPER:

Resolution:

- ✓ The Board recommends that all Question papers should be made to pass a quality control and then only be accepted as part of the Question Paper Bank for that Examination.

- ✓ The Question Paper setters should be given clear and specific guidelines for more effective Question Paper setting.

- ✓ The Reasoning question should be designed to test comprehension and ability to make clinical correlation. It is not meant to check memory. Hence, the paper setter should be given clear and specific guidelines regarding this.

Agenda No. iv - DISSERTATION:

Resolution:

Evaluation shall be by outside Examiners. Discussion on Dissertation shall be done by the Examiners during the practical Examinations.

Agenda No.v - MED Ej

Resolution:

System of publications in Med-Ej is a beneficial part of Post Graduate training which helps the Post Graduates to have exposure to Research and Publication. Hence, it is recommended that the programme may continue.

Agenda No. vi. PAPER PRESENTATION AND POSTERS

Resolution:

The existing direction of the University is beneficial as a part of the Post Graduate training and hence, it is recommended that the programme may continue.

Agenda No.vii - IMPLEMENTATION OF EXTRA SKILLS FOR ALL POST GRADUATE MEDICAL DEGREE / DIPLOMA CANDIDATES FROM THE ACADEMIC YEAR 2012-13.

Resolution:

The word "Extra" may be deleted and it should be read as "IMPLEMENTATION OF SKILLS".

Agenda No.viii - QUARTERLY PERFORMANCE REPORT

Ten marks allotted for Quarterly Performance Report may be dropped.

E-Format of the Performance Report should be made available in the University website to be directly used for uploading by the Heads of Departments.

Agenda No.ix TEN MARKS ALLOTTED FOR ABOVE SKILLS

Resolution:

May be dropped.

Agenda No.x - LOG BOOK

Structured Log Book should be prepared and submitted to the University after detailed discussion with the subject Heads of the various Medical Colleges by the Speciality representatives of the Board of Studies.

Agenda No.xi - TRAINING IN BIO-STATISTICS:

Bio-statistics training should be part of the curriculum of the Post Graduates as a part of training in Research Methodology including Biostatistics. It may not be made mandatory.

Agenda No.xii , EVALUATION OF THEORY ANSWER PAPERS:

Resolution:

Resolutions of 47th SAB held passed under any other items.

Agenda No.XIII. ANIMAL EXPERIMENTS:

Resolution:

The Board discussed the representation of various Physiology faculties from various Medical Colleges regarding the need for Animal Experiments training in Physiology. The Board recommends that the Department of Physiology may be allowed to conduct animal experiment as a part of training and Examination within the regulatory framework of CPCSEA.

Agenda No.xiv- PLAGIARISM SOFTWARE FOR DISSERTAION AND MED.Ei.

Resolution:

The Board recommends that the University may look into the performance and quality of the Plagiarism software that is presently being used as there are many instances where Post Graduates find it difficult to use it.

The Board also resolved to make certain changes in the practical scheme of P.G. Non Clinical as per the scheme annexed alongwith this letter.

Any other item:

Any other items placed and approved in the Standing Academic Board:

1. It was resolved that from **February 2014/ April 2014** session onwards, only single valuation will be done for all Undergraduate, Post Graduate and Super Speciality Degree courses unless the Double valuation is advised by the respective councils.

Guidelines for II valuation wherever prescribed by their Council.

⇒ **Answer scripts of the candidates who have failed in the first valuation will be subject to second valuation.**

⇒ **The average marks of the two valuations will be considered for processing the results.**

⇒ If the difference of marks between the two valuations is more than 30%, then the answer scripts be subject to third valuation and the best of two valuations among the three will be considered for processing the results.

2. It has been resolved that, "once hall ticket is issued by the University to a candidate based on his/her application for Examination submitted along with necessary fee forwarded by the College, it will be treated as an attempt irrespective of the fact whether the candidate is actually appearing for the Examination or not due to any reason." Only when the candidate has taken up/appeared for any part of the Examination, it will be considered as an appearance.

3. From the April 2014 Examination session onwards, for all the Post Graduate Degree/Diploma and super specialty courses, it has been decided to remove the component system of appearing in the Examination following the norms of the respective councils.

4. The fees for issue of Migration certificate need to be collected along with the Examination fees and the Migration certificates shall be issued on receipt of the application.

I am to request that the decisions of the Board of Studies PG Clinical and Non Clinical and the resolutions passed in the Standing Academic Board may be communicated to all the Professors and Heads of Departments for information and to take follow up action in this regard.

I request that the receipt of this letter may be acknowledged by return of post.

Yours faithfully,

Encl: PG Non Clinical Practical
scheme

REGISTRAR

Copy to:

- 1) Controller of Examinations
- 2) All Deputy Controller of Examinations
- 3) Deputy Registrar of Examinations
- 4) All Assistant Registrar of Examination Wing
- 5) Deputy Registrar and Personal Secretary to Vice Chancellor
- 6) All Section Officers in Examination Wing
- 7) Section Officer in Academic and Dept. of Curriculum
- 8) Spare – 10 copies

THE TAMIL NADU Dr.M.G.R.MEDICAL UNIVERSITY, CHENNAI.
MD ANATOMY
PG NON CLINICAL EXAMIANTION PATTERN

PRACTICALS I

01. GROSS ANATOMY – Dissection 75 Marks

PRACTICALS II HISTOLOGY

(Section cutting;
Embedding and staining;
Histology slides draw and discuss) 75 Marks

PRACTICALS III 50 Marks

(Includes OPSE for 20 marks
Embryology and Neuro Anatomy)

VIVA

Pedagogy	40 Marks	
Viva	60 Marks	
	-----	100 Marks
		(Min 50% pass)

DISSERTATION:

Discussion	50 Marks	
Evaluation by outside examiners		
2 x 25 marks	= 50 Marks	
	-----	100 Marks
		Min 50%)

Grand total = 400 Marks / 200 Marks
Minimum Pass 50%

THE TAMIL NADU Dr. M.G.R MEDICAL UNIVERSITY, CHENNAI

P.G NON-CLINICAL EXAMINATION PATTERN

PHYSIOLOGY

Practicals - 2 days

I Long exercise 80 marks	- Animal Lab -
II Short exercise 1 70 marks	- Human Lab -
III Short exercise 2 30 marks	- Hematology Lab -
IV OSPE	- 20 Marks

Total	200 Marks

I Animal Lab

- Whole animal Mammaliah experiments /
or Charts (ECG, BP, Response recording) - 40 marks
- Isolated organ - 40 marks
- 1. Isolated whole heart - rat or rabbit
- 2. Smooth muscle - rat
- 3. Skeletal Muscle

II Human Lab

- Clinical examination of systems - 20 marks
- Human experiments (eg. Recording &
reporting of ECG, EEG, NCU, Evoked
potentials, Spirometry) - 30
marks
- Problem Solving exercises - 20 marks
- Eg. Case discussion, Interpretation of
lab values like ABG, electrolytes etc

III Hematology lab - 30 marks

IV OSPE 5 Stations X 4 Marks = 20 marks

One skilled station -Preparation of Solutions
Four response stations -Statistics (compulsory)
Others can be: Instruments, histology etc

Total marks - 200

Passing Minimum -100 marks

VIVA

- 1. Viva - 60 marks
- 2. Pedagogy - 40 marks

Pedagogy should be with chalk and board only

Total - 100 marks

passing Minimum -50 Marks

Dissertation:

Discussion on dissertation - 50 marks

Dissertation evaluation by

2 external examiners (2 x 25 marks each) 50 Marks

- 100 marks.

	Maximum Marks	Passing Minimum
PRACTICALS	200	100
VIVA	100	50
Dissertation	100	50

THE TAMILNADU Dr.M.G.R. MEDICAL UNIVERSITY
PG NON CLINICAL EXAMINATION – PRACTICAL PATTERN

MD:- PATHOLOGY

DAY 1:-

FORENOON SESSION:-

TIME ALLOTTED

MARKS

1.HAEMATOLOGY CASE/ CLINICAL PATHOLOGY/ BLOOD BANKING	2 HOURS	25 Marks
2.GROSSING/AUTOSPY/ GROSS SPECIMENS FOR DIAGNOSIS AND DISCUSSION	1 1/2 HOURS	25 Marks (5+10+10)

AFTERNOON SESSION:-

HAEMATOLOGY AND CYTOLOGY SLIDES & DISCUSSION	2 HOURS (10 SLIDES X 5 MARKS EACH)	50 Marks 100 Marks
---	---------------------------------------	-----------------------

DAY 2:-

FORENOON SESSION:-

1.HISTOPATHOLOGY SLIDES AND DISCUSSION	2 ½ HOURS (16 SLIDES X 5 MARKS EACH)	80 Marks
2. OSPE		20 Marks

TOTAL – 200 marks

Min. pass (50%)

DAY 2:-

AFTERNOON:

2 HOURS

PAEDOGOGY	-	40 marks
Log Book		No Mark allocated. But needs evaluation.
VIVA	-	60 marks

TOTAL 100 MARKS

MINIMUM PASS – 50 marks (50%)

Aggregate (Practical + VIVA) – 300 marks (200 + 100)

MINIMUM PASS 50% - 150 marks

DISSERTATION:

Discussion 50 Marks

Evaluators 2 x 25 = 50 Marks

Total – 100 marks (minimum pass 50 marks)

GRAND TOTAL – 400 MARKS / 200 MARKS . MINIMUM PASS 50%

**THE TAMILNADU Dr.M.G.R. MEDICAL UNIVERSITY
PG NON-CLINICAL EXAMINATION PATTERN
SCHEME OF EXAMINATION**

MD:MICROBIOLOGY -

		Marks
I	Long Exercise 1 No.	
	Mixed Culture (Clinical Microbiology)	80 Marks
	Short Exercise	
	Pure Culture	40 Marks
	Histopathology Slides	20 Marks
	Sero-Immunology (Agglutination/precipitation/ELISA)	15 Marks
	Parasitology (Stool for ova, cyst)	10 Marks
	Mycology	10 Marks
		----- 175
	Marks	
	OSPE	
	(OPSE – 20 marks 4 stations x 5 marks remaining 5 marks will be added to mycology)	25 Marks

		200 Marks (Min.50%)
	TOTAL	200 Marks
	Minimum for Pass	100 Marks (50%)
II	VIVA	
	Viva	60 marks
	Pedagogy	40 marks

	Total	100 Marks
	Minimum for Pass 50%	50 Marks
III	DISSERTATION	
	Evaluation by outside examiners	50 Marks
	DISCUSSION	50 Marks

		100 Marks
	Minimum for Pass 50%	50 Marks
Grand total	=	400 Marks / 200 Marks Minimum Pass 50%)

Daywise distribution of Exercises

Day1	Day2	Day3
Clinical Microbiology (mixed culture)	Clinical Microbiology (Contd.)	Clinical Microbiology (Final Report)
Pure Culture	Pure Culture	-----
Mycology	Parasitology	Pedagogy
Sero Immunology	Histopathology slides	Viva
	OSPE	Discussion on dissertation

THE TAMIL NADU Dr.M.G.R MEDICAL UNIVERSITY
PG NON CLINICAL EXAMINATION PATTERN
M.D.BIOCHEMISTRY PRACTICALS

Part I

1. Thin layer / Paper Chromatography -30
marks

a. Aimed at identifying the unknown carbohydrate or amino acid

2. Serum Protein Electrophoresis -30
marks

3. OSPE -20
marks

Four stations of 5 marks each (4x5)

- Two performance stations(2X5)
- Two response stations(2x5)

Part II

1. Clinical cases -Charts discussion - 20
marks

- a. Four charts of 5 marks each
- b. Related to clinical biochemistry

2 Long case presentation and discussion - 40 marks

3. Estimation of any two analytes related to the case Discussed
 (1 Kinetic and 1 endpoint assay) 2x20=40 – 40 marks
4. Validation of reagent kits – 20 marks

Complete evaluation of reagent kits is not expected at the time of examination. Relevant areas may be examined.

Total Marks -200

Passing Minimum - 100

VIVA

1. Viva –60 marks
 2. Pedagogy – 40 marks

Total – 300 marks

passing Minimum - 150 Marks

4. Discussion on dissertation – 50 marks

External evaluation 25x2 – 50 marks

100 (minimum pass 50%)

Grand Total = 400

Minimum pass 200 (50%)

* Viva - Viva includes Viva on recent advances, Pedagogy, Log book Discussion

** Dissertation - Dissertation evaluation by 2 examiners each for 25 Marks - 50 marks

Discussion on Dissertation - 50

marks

Total Marks -100

marks

THE TAMILNADU Dr.M.G.R. MEDICAL UNIVERSITY
PG EXAMINATION CLINICAL/NON-CLINICAL EXAMINATION PATTERN
M.D. FORENSIC MEDICINE
PRACTICAL SCHEME FOR 3 DAYS

DAY – 1

<u>EXERCISE</u>	<u>TIME</u>	<u>MARKS</u>
1. Adult Autopsy	3 Hours	30
2. Foetal Autopsy	1½ Hours	20
3. Spotters (10 No.)	40 Min.	10
a) Pathology Specimen		
b) Forensic Specimen		
c) Clue Materials/ Artefacts/Photos		
d) Toxicology Specimen		
4. Clinical Forensic Medicine		
a) Drunkenness Case Examination	20 Min.	10
b) Injury Case Examination	20 Min.	10
c) Sexual Offences Case Examination (Accused & Victim)	30 Min.	10

NOTE :

[Wherever possible subjects should be provided for examination]

DAY – 1 **TOTAL** **6 Hrs. & 20 Min.** **90 Marks**

THE TAMILNADU Dr.M.G.R. MEDICAL UNIVERSITY
PG EXAMINATION CLINICAL/NON-CLINICAL EXAMINATION PATTERN
M.D. FORENSIC MEDICINE
PRACTICAL SCHEME FOR 3 DAYS

DAY – 2

<u>EXERCISE</u>	<u>TIME</u>	<u>MARKS</u>
1. Forensic Anthropology and Odontology		
a) Age estimation by using Dental and Physical examination	30 Min.	10 Marks
b) Cluster of bones examination	30 Min.	10 Marks
c) Cluster of X rays examination	30 Min.	10 Marks

NOTE :

[For 1 a) Wherever possible subjects should be provided for examination]

2. Expert opinion on the documents of a Medico legal case	30 Min.	10 Marks
3. Interpretation of Photographs/ Videographs/Weapons in a Medico legal case	30 Min.	10 Marks
4. Microscopic examination of tissues [5 Slides] 5 x 2	40 Min.	10 Marks
5. Mock Court	60 Min.	10 Marks
6. Preparation of Postmortem Certificate from the autopsy done on Day - 1	30 Min.	10 Marks
7. Psychiatric case interpretation	30 Min.	10 Marks

DAY – 2 **TOTAL** **5 Hrs. & 10 Min.** **90 Marks**

M.D. FORENSIC MEDICINE

Day 3

Exercise	Time	Marks
1. OSPE		
4 Stations 5 Marks each	60 Minutes	20
	Total	200 Marks
	Min. Marks	100 (50%)
VIVA		
1. Pedagogy	30 Min	40 Marks
2. VIVA	60 Min.	60 Marks
3. Log book	30 Min.	00 Marks
		---- 100 Marks
5. Discussion on Dissertation	60 Min.	50 Marks
Evaluation	2 x 25 Marks	50 Marks
		-----100 marks

Grand total = 300 + 100 = 400 Marks / 200 Marks
Minimum Pass 50%

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY
PG EXAMINATION PATTERN – M.D. COMMUNITY MEDICINE

SCHEME OF EXAMINATION

THEORY : PART I 1 PAPER
PART II 3 PAPERS
100 Marks for each paper
Minimum Pass Marks – 50 in each

CLINICALS

Clinico Social Examination :		
Family Study :	80 Marks	
Public Health Skills :		
Computer Data		
Analysis Skills :	25 Marks	
Management Skills		
(as Case Study) :	25 Marks	
Epidemiology Bio Statistics Exercise	50 Marks	
OSCE (Public Health Chemistry)		
PH Micro Medical Entamology RCH skills	20 Marks	(4 x 5)

Total	200 Marks	
	Minimum Pass 100 Marks	

VIVA

Viva	60 Marks	(15 x 4)
Log Book	40 Marks	(10 x 4)

Total	100 Marks	
	Minimum Pass 50 Marks	

Aggregate (Clinical + Viva) - 300 Marks (200 + 100) Minimum
Pass (50%) - 150 Marks

DISSERTATION:

Evaluation I) 50 Marks
Evaluation II) (25 Marks for each evaluator)

Discussion 50 Marks (10 x 5)

Total 100 Marks (Minimum Pass 50 Marks)

Grand total = 400 Marks / 200 Marks
Minimum Pass 50%

SCHEDULE OF EXAMINATION

	Forenoon	Afternoon
Day 1	Epidemiology/Exercises Family Study	OSCE Computer Skill Managerial Skill
Day 2	Paedagogy Log book evaluation Dissertation discussion	Viva

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

PG EXAMINATION PATTERN – M.D. PHARMACOLOGY

SCHEME OF EXAMINATION

**THEORY 4 PAPERS – 100 MARKS FOR EACH PAPER
MINIMUM PASS MARKS – 50 IN EACH**

PRACTICALS :

DAY 1 :

Clinical Pharmacology case discussion	-	100 Marks (2 x 50)
Toxicology	-	30 Marks
Protocol writing	-	25 Marks
Journal Criticism	-	25 Marks
OSPE (4 Stations x 5 Marks)	-	20 Marks
Total	-	----- 200 Marks -----

DAY 2 :

Pedagogy	-	40 Marks
Viva	-	60 Marks
Total	-	----- 100 Marks -----

Aggregate	-	300 Marks (200 + 100)
Minimum Pass (50%)	-	150 Marks

DISSERTATION:

Evaluation I)	2 externals
Evaluation II)	(25 Marks for each evaluator)
Discussion		50 Marks
Total		----- 100 Marks

Grand total = 400 Marks / 200 Marks
Minimum Pass 50%

MD PHARMACOLOGY

Objective Structured Practical Examination

OSPE

- ✓ Interpretation of Clinical Pharmacology Charts.
- ✓ Interpretation of Pharmacokinetic Charts.
- ✓ Interpretation of Pharmacodynamic Charts.
- ✓ Prescription Audit.
- ✓ Casuality Analysis.
- ✓ Calculation of Bioavailability, TDM, SSC.
- ✓ Ethics – Exercises based on ethical decision making.
- ✓ Exercises based on Evidence Based Medicine (Meta Analysis).
- ✓ Dosage calculation in paediatrics and geriatrics.
- ✓ Dosage calculation in compromised renal and liver function.

**CHANGES IN PRACTICAL SCHEME
PLACED/APPROVED IN THE 46TH STANDING ACADEMIC
BAORD**

MD PAEDIATRICS

SCHEME OF EXAMINATION

THEORY : PART I 1 PAPER
PART II 3 PAPERS
100 Marks for each paper
Minimum Pass Marks – 50 in each

CLINICALS **- 200 Marks**

Time

Long Case - 1 **80 Marks** (45 Min.)
Short Cases - 2 **35 Marks each** (15 mts. each)

Ward Rounds 3 x 10 Marks 30 Marks) **(20 Mts.)**

OSCE 4 x 5 Marks 20 Marks)
(drugs,lab data,emergency imci)

Total 200 Marks

Minimum Pass 100 Marks (50%)

VIVA

Viva 4 x 20 Mark 80 Marks To include

- a) nutrition
- b) imaging
- c) counselling
- d) Procedure
- e) Instruments
- f) Recent advances
- g) adolescence

Log Book 20 Marks

Total 100 Marks

Minimum Pass 50 Marks

Aggregate (Clinical + Viva) - 300 Marks (200 + 100)

Minimum Pass - **150 Marks**

DISSERTATION:

Evaluation by the
the TN Dr.MGR. Uty. 50 marks
Discussion during Viva 50 Marks

Total 100 Marks Minimum Pass 50
Marks

Grand total 400 Marks / 200 Marks Minimum Pass
Minimum Pass 50%

sd/-
(Dr. M.Kannaki)
(Dr.Chitra Ayyappan)

ORTHOPAEDICS

BOARD OF STUDIES FOR PG COURSES

SUGGESTIONS: For Change

- 1) To increase II B) viva marks to 80 Marks
(from the previous 60 Marks)
- To increase the Log Book marks to 20 marks (instead of the previous 40 Marks)

The total marks of 100 remain unchanged.

- 3) Uniformly, the same pattern to be followed for both the Diploma and the MS Orthopaedics, except that Diploma candidates will not have dissertation.

sd/-
(Dr. N. Nazeer Ahmed)
Prof. Of Ortho
KMC, Chennai.

MD COMMUNITY MEDICINE

CLINICAL	- NIL	Changes
VIVA	VIVA – 80 Marks Log Book 20 Marks	
Dissertation	Nil	Changes

sd/-
(Dr.P. Seenivasan)
Prof. Of Comm.Med.
SMC, Chennai.

**Board of Studies – PG CLINICAL
MD (O & G)**

Clinicals		Marks
Long Case	Obs. - 1	50 marks
	Gynae 1	50 marks
Short Case	Obs. - 1	25 marks
	Gynae 1	25 marks

		150 Marks
Ward Rounds		
	3 cases x 10	30 Marks
	(AN,Gyn.FW)	
OSCE	4 X 5	20 Marks

		200 Marks
Viva-Voce		80 Marks
	Obstetrics - 40 marks	
	Gynaecology 40 Marks	
(Specimen, Instruments, FW,Imaging, Drugs,Dummy Pelvis, Partogram, Endoscopy)		
Log Book		20 Marks
Dissertation		100 Marks
Discussion during viva		50 Marks
Evaluation by University sending to 2 examiners within the State		50 Marks

sd/-
(Dr. P. Meenalochani)
IOG, Chennai.

MD GENERAL MEDICINE

CLINICAL EXAM:

⇒ Long Case	80 Marks	No change
⇒ Short Cases 3 x20	60 Marks	No change
⇒ Ward Rounds		
each case 10 Marks)
)
4 cases x	40 marks)
4 x 10 one case) Suggested
per examiner) changes
⇒ OSCE (each station 5 marks))
)
4 stations 5 x	20 marks)

	200 Marks	

No change suggested in

Viva - 80 Marks each examiner 20 marks
Log Book 20 Marks
Dissertation
Discussion.

Sd/-
(Dr.R. Sabarathinavel)
Dr.C. Rajendran)

MD Geriatric Medicine

CLINICALS	No.of Cases	Marks
a) Long Case	1 Case	80 Marks
b) Short Cases	2 Cases	70 marks (35x2)
1. Ward Round	Three cases	30 marks (10x3)
d) OSCE	Four Stations	20 marks (5 x 4)

		200 marks
		=====
VIVA		Marks
	Viva	80 marks
	Log Book	20 marks

		100 marks
DISSERTATION		
Discussions	-	50 Marks
Evaluation by University with External	-	50 marks
	-----	100 Marks
Total		400 Marks
		Min. Pass 200/400 = 50%

MD COURSE IN BIOCHEMISTRY

Training in the MD course in biochemistry aims to cover the following areas:

1. Acquisition of adequate knowledge and skills in Biochemistry
2. Teaching and evaluation of undergraduate students in medicine, nursing and allied health sciences.
3. Managing a diagnostic laboratory and providing diagnostic support to clinicians.
4. Clinical experience in selected relevant specialties to provide an effective link between clinicians and the diagnostic lab.
5. Research skills.

CORE COMPETENCIES EXPECTED TO BE ACQUIRED IN EACH OF THE ABOVE AREAS AT THE END OF THE COURSE:

I. Acquisition of adequate knowledge and skills in Biochemistry

Broad learning areas would comprise the following:

1. General biochemistry
2. Clinical biochemistry
3. Molecular biology
4. Immunology
5. Biochemical and molecular techniques
6. Recent advances in biochemistry and biotechnology
7. Basic biomedical statistics

Suggested areas in which it would be desirable to acquire practical skills:

1. Paper and thin layer chromatography

2. Estimation of clinically relevant analyses
3. Urine analysis
4. Protein electrophoresis
5. Enzyme kinetics and use of inhibitors
6. DNA and RNA isolation*
7. Polymerase chain reaction*
8. Restriction fragment length polymorphisms*
9. Nucleic acid electrophoresis*
10. SDS-PAGE and western blotting*
11. ELISA*
12. Sub-cellular fractionation*
13. Basics in handling of laboratory animals*
14. Demonstrations:HPLC, immunohistochemistry, immunofluorescence, mass spectrometry*

*The items with asterisks are only suggestions and have been included as desirable skills to have in view of the advances in the subject. Each of the departments involved in training may decide which of these are feasible in their setting. If they do not have the facilities for these in their department, they may consider sending candidates for short periods of training to other departments in their institution or in other institutions that may have the required facilities, where trainees can watch demonstrations of the techniques being carried out, even if they are not able to get hands-on experience.

II. Managing a diagnostic laboratory and providing diagnostic support to clinicians

At the end of the course, MD trainees should be

1. conversant with the working of automated analyzers

2. able to look after basic maintenance of and first line trouble-shooting for automated analyzers
3. able to validate and report laboratory results
4. able to detect and deal with errors in laboratory results
5. able to institute quality control and delta checks on results obtained from automated analyzers
6. able to evaluate different methods of estimations of biochemical analytes
7. able to evaluate commercial kits for estimations of biochemical analytes
8. able to manage a diagnostic biochemistry laboratory
9. able to carry out audits in the laboratory, prepare SOP for the laboratory and implement processes and systems for accreditation of the laboratory
10. implement safe practices in the laboratory

Optional diagnostic laboratory postings

- i. Hematology and blood bank
- ii. Cytogenetics(karyotyping)
- iii. Microbiology/virology(ELISA and molecular diagnostics)
- iv. Pathology (immunocytochemistry and FISH)

IV. Clinical experience in selected relevant specialties to provide an effective link between clinicians and the diagnostic lab

Clinical postings of 3 months duration in total in general medicine and other relevant medical specialties (suggestions for these include endocrinology, gastroenterology, nephrology, intensive care units and pediatrics)

V. Research skills

At the end of the course, MD trainees should be able to

1. read, understand and make presentations of the contents of a research publication

2. critically appraise a research publication
3. write a research proposal to carry out a study for purpose of a dissertation/thesis
4. write up the results of the study done
5. publish a part or whole of the thesis/dissertation as a research paper of conference proceedings

To accomplish the above objectives, it is desirable that trainees attend the following during the course:

1. basic courses in research methodology and ethics
2. basic courses in biostatistics
3. at least one conference/symposium/training workshop during the course

Dr. Kanagasabai, Chairman	Sd/-
Dr.Sudha Seshayyan, Member	Sd/-
Dr.Padma, M.D. Member	Sd/-
Dr. Molly Jacob, Member	Sd/-
Dr.Selvi, Member	Sd/-