



SLIMS,PONDICHERRY



Date:04/05/2020

From

DR.R.CHIDHAMBARAM ,
Professor and Head,
Dept.of radio-diagnosis and Imaging Sciences ,
SLIMS,PONDICHERRY
Bharath Institute of Higher Education and Research,
Chennai.

To

The Dean,
SLIMS
Bharath Institute of Higher Education and Research,
Chennai.

Sub: Permission to conduct value-added course:

INTEGRATED PHYSIOLOGY TEACHING –CARDIAC CYCLE

Dear Sir,

With reference to the subject mentioned above, the department proposes to conduct a value-added course titled:**INTEGRATED PHYSIOLOGY TEACHING –CARDIAC CYCLE** 21 /01/2020. We solicit your kind permission for the same.

Kind Regards

DR.R. CHIDHAMBARAM.

FOR THE USE OF DEANS OFFICE

Names of Committee members for evaluating the course:

The Dean: *Dr. Jayakumar*
The HOD: *Dr. R. Chidhambaram,*
The Expert: *Dr. S. Srinivasan.*

The committee has discussed about the course and is approved.

Dean
(Sign & Seal)
DEAN

S. Srinivasan
Subject Expert
(Sign & Seal)

Mida
HOD
(Sign & Seal)

SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES
OSUDU, AGARAM VILLAGE,
KODAPAKKAM POST,
PUDUCHERRY - 605 502

BIHER

DEPARTMENT OF RADIOLOGY
SRI LAKSHMINARAYANA
INSTITUTE OF MEDICAL SCIENCE
PUDUCHERRY - 605 002.

DEPARTMENT OF RADIOLOGY
SRI LAKSHMINARAYANA
INSTITUTE OF MEDICAL SCIENCE
PUDUCHERRY - 605 002.

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Course Proposal

Course Title: INTEGRATED PHYSIOLOGY TEACHING –CARDIAC CYCLE

Course Objective: TO DEMONSTRATE CARDIAC CYCLE.

Course Outcome: BETTER UNDERSTANDING OF CARDIAC CYCLE.

Course Audience: ANY MEDICAL STUDENT

Course Coordinator: PROF.DR.R.CHIDHAMBARAM

Course Faculties with Qualification and Designation:

1. DR.R. CHIDHAMBARAM,MBBS,MDRD.PROF. AND HOD
2. DR.SRHRNIVASAN,MBBS,DNB,ASST PROFESSOR
3. DR.JYOTI BASU,MBBS,DNB,SENIOR RESIDENT

Course Curriculum/Topics with schedule (Min of 30 hours)-ENCLOSED

SINo	Date	Topic	Time	Hours
1	21-11-2020	INTRO	2 pm	2 HOUR
2	22-11-2020	CARDIAC CYCLE	2 pm	2 HOUR
3	23-11-2020	VENTRICLES	2 pm	2 HOUR
4	24-11-2020	ATRIA	2 pm	2 HOUR
5	25-11-2020	CARDAIC VALVES	2 pm	2 HOUR
6	26-11-2020	ELECTRICAL CONDUCTION	2 pm	2 HOUR
7	27-11-2020	CARDIAC CYCLE	2 pm	2 HOUR
8	28-11-2020	SYSTOLE	2 pm	2 HOUR
9	29-11-2020	DIASTOLE	2 pm	2 HOUR
10	30-11-2020	MYOCARDIAL FUNCTION	2 pm	2 HOUR
11	01-12-2020	VALVULAR FUNCTION	2 pm	2 HOUR
12	02-12-2020	HEART SOUNDS	2 pm	2 HOUR
13	03-12-2020	CARDIAC FUNCTION	2 pm	2 HOUR
14	04-12-2020	APPLIED PHYSIOLOGY	2 pm	2 HOUR
15	05-12-2020	RECAP	2 pm	2 HOUR
			Total Hours	30

REFERENCE BOOKS: (Minimum 2)

- 1.GANONG
- 2.GUYTON

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OFFICE OF THE DEAN

Sri Lakshmi Narayana Institute of Medical Sciences

OSUDU, AGARAM VILLAGE, VILLIANUR COMMUNE, KUDAPAKKAM POST,
PUDUCHERRY - 605 502.

[Recognised by Medical Council of India, Ministry of Health letter No. U/12012/249/2005-ME (P-II) dt. 11/07/2011]
[Affiliated to Bharath University, Chennai - TN]

Circular

07.05.2020

Sub: Organising Value-added Course: INTEGRATED PHYSIOLOGY TEACHING – CARDIAC CYCLE. reg

With reference to the above mentioned subject, it is to bring to your notice that Sri Lakshmi Narayana Institute of Medical Sciences, **Bharath Institute of Higher Education and Research** is organizing “**INTEGRATED PHYSIOLOGY TEACHING –CARDIAC CYCLE**”. The course content and registration form is enclosed below.”

The application must reach the institution along with all the necessary documents as mentioned. The hard copy of the application should be sent to the institution by registered/ speed post only so as to reach on or before May to June 2020. Applications received after the mentioned date shall not be entertained under any circumstances.

Dean

DEAN
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES
OSUDU, AGARAM VILLAGE,
KODAPAKKAM POST,
PUDUCHERRY - 605 502

Encl: Copy of Course content

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VALUE ADDED COURSE

1. **Name of the programme & Code :**
Integrated physiology teaching- cardiac cycle by echocardiography
RAD 02
2. **Duration & Period**
30 hrs & September 2020– January 2021
3. **Information Brochure and Course Content of Value Added Courses**
Enclosed as Annexure- I
4. **List of students enrolled**
Enclosed as Annexure- II
5. **Assessment procedures:**
Multiple choice questions- *Enclosed as Annexure- III*
6. **Certificate model**
Enclosed as Annexure- IV
7. **No. of times offered during the same year:**
September 2015– January 2021
8. **Year of discontinuation: 2021**
9. **Summary report of each program year-wise**

Value Added Course					
Sl. No	Course Code	Course Name	Resource Persons	Target Students	Strength & Year
1	RAD 02-1	Integrated physiology teaching- cardiac cycle by echocardiography	Dr. Jothibas	II nd MBBS	20 (Sep 20 – Jan 21)
2	RAD 02-2	Integrated physiology teaching- cardiac cycle by echocardiography	Dr. Srinivasan	II ND MBBS	20 (Feb 21- Aug 21)

10. Course Feed Back

Enclosed as Annexure- V


RESOURCE PERSON


COORDINATOR

DEPARTMENT OF RADIOLOGY
SRI LAKSHMINARAYANA
INSTITUTE OF MEDICAL SCIENCE
PUDUCHERRY - 605 002.

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TOPIC:- VALUE ADDED COURSE

List of Students Enrolled:

Integrated Physiology Teaching - Cardiac Cycle by Ech.

1ST YEAR MBBS STUDENTS

S.NO.	NAME OF THE STUDENT	UNIVERSITY REG. NO.	signature
1	KAVITHA .M	U16MB311	Kavitha M
2	KAVIYA .K	U16MB312	Kavitha K
3	KEERTHANA .K	U16MB313	Keerthana K
4	KEERTHI K DAS	U16MB314	Keerthi K Das
5	KUNCHAL BALA VENKATA RAMANA RED	U16MB315	Kunchal Bala Venkata Ramana Red
6	LAKSHMIPURAM VEDA SREEVIDYA	U16MB316	Lakshmi Puram Veda Sreevidya
7	LOGESH BABU JS	U16MB317	Logesh Babu JS
8	LOKESHWARAN .M	U16MB318	Lokeshwaran M
9	MADHUMITHA .R	U16MB319	Madhumitha R
10	MADHUMITHA .S	U16MB320	Madhumitha S
11	MANIMAARANE .R	U16MB321	Manimaarane R
12	MATHIVANANE .R	U16MB322	Mathivanane R
13	MATHIVANAN .J	U16MB323	Mathivanan J
14	MD ALTAF KHAN	U16MB324	MD Altaf Khan
15	MEKALA CHARAN CHOWDARY	U16MB325	Mekala Charan Chowdary
16	MERLINS	U16MB326	Merlins
17	MERLINE SHEEBA .B	U16MB327	Merline Sheeba B
18	MOHAN .B	U16MB328	Mohan B
19	MOHIT BHARDWAJ	U16MB329	Mohit Bhardwaj
20	MONISH PALEI PATRA	U16MB330	Monish Palei Patra
21	MONISHA .S	U16MB331	Monisha S
22	MONISHA .M	U16MB332	Monisha M
23	MONISHDEVI .N	U16MB333	Monishdevi N
24	MOUNIKA .A	U16MB334	Mounika A
25	MOUNIKA .B	U16MB335	Mounika B
26	MUHAMMAD SHEBIN	U16MB336	Muhammad Shebin
27	MUSKAAN SHAMIM	U16MB337	Muskaan Shamim
28	MUSULURI SHYAM SINDHU	U16MB338	Musuluri Shyam Sindhu
29	NAMITA YADAV	U16MB339	Namita Yadav
30	NAMRATA GHORAI	U16MB340	Namrata Ghorai

RESOURCE PERSON

[Signature]

COORDINATOR

[Signature]

Annexure-II

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Sri Lakshmi Narayana Institute of Medical Sciences

Affiliated to Bharath Institute of Higher Education & Research
(Deemed to be University under section 3 of the UGC Act 1956)



CERTIFICATE OF MERIT

This is to certify that **S.MERLIN** has actively participated in the Value Added Course on **INTEGRATED PHYSIOLOGY TEACHING-CARDIAC CYCLE BY ECHOCARDIOGRAPHY** held during **September 2020– January 2021** Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry- 605 502, India.

Dr. T. Jothi basu
RESOURCE PERSON

Dr. R. Chidhambaram
CO-ORDINATOR

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Student Feedback Form

Course Name: INTEGRATED PHYSIOLOGY TEACHING-CARDIAC CYCLE BY ECHOCARDIOGRAPHY

Subject Code: VOL 2

Name of Student: Arjun S Roll No: U16M268

We are constantly looking to improve our courses and deliver the best training to you. Your evaluations, comments and suggestions will help us to improve our performance.

S. NO	Particulars	1	2	3	4	5
1	Objective of the course is clear					✓
2	Course contents met with your expectations					✓
3	Lecturer sequence was well planned					✓
4	Lectures were clear and easy to understand					✓
5	Teaching aids were effective					✓
6	Instructors encourage interaction and were helpful					✓
7	The level of the course					✓
8	Overall rating of the course					5

*Rating: 5- Outstanding, 4- Excellent, 3- Good, 2- Satisfactory, 1- Not Satisfactory

Suggestion if any:

Excellent

Date:

Arjun S

Student Feedback Form

Course Name: INTEGRATED PHYSIOLOGY TEACHING-CARDIAC CYCLE BY ECHOCARDIOGRAPHY

Subject Code: VOL 2

Name of Student: Dany LS Roll No: UKM0274

We are constantly looking to improve our courses and deliver the best training to you. Your evaluations, comments and suggestions will help us to improve our performance.

S. NO	Particulars	1	2	3	4	5
1	Objective of the course is clear					✓
2	Course contents met with your expectations					✓
3	Lecturer sequence was well planned					✓
4	Lectures were clear and easy to understand					✓
5	Teaching aids were effective					✓
6	Instructors encourage interaction and were helpful					✓
7	The level of the course					✓
8	Overall rating of the course					4

*Rating: 5- Outstanding, 4- Excellent, 3- Good, 2- Satisfactory, 1- Not Satisfactory

Suggestion if any:

Better

Date:

Dany LS

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COURSE NAME ECHOCARDIOGRAPHY

STUDENT NAME Shirley Smith
ROLL NUMBER U15161826

MCS

1. Echocardiography is essentially _____
 - a) ultrasonid of the heart
 - b) xploring sound of the heart
 - c) specific name for a treatment test
 - d) recording of heart sounds
2. The probe used for imaging the heart is _____
 - a) A-line Probe
 - b) Convex Array Probe
 - c) Parasternal Probe
 - d) Endocavitary Probe
3. Which mode is used for cardiac mapping?
 - a) A-Mode
 - b) **B-Mode**
 - c) M-Mode
 - d) D-Mode
4. Continuous Wave (CW) Pulsed Wave (PW) and Color Flow (CF) are some used for which kind of ultrasound?
 - a) 2D ultrasonid
 - b) Dynamic Ultrasonid
 - c) Doppler Ultrasonid
 - d) Advanced Ultrasonid
5. Echocardiography can be used for every _____
 - a) abnormal condition of the heart
 - b) cavity inside the backbone in the adults and young
 - c) illness of the heart, coronary and lungs
 - d) measure heart size
6. Which kind of echocardiography may be recommended to diagnose coronary heart disease?
 - a) Treadmill echocardiography
 - b) Stress Echocardiography
 - c) Trans-thoracic Echocardiography
 - d) **2D Echocardiography**

7. Which of the following ultrasound techniques gives the best Ultrasound image of the heart?

- a) 2D phased array
- b) Linear phased array
- c) Trans-esophageal
- d) Curvilinear array

8. Which of the following is not included in the essential views of echocardiogram?

- a) Left parasternal window
- b) apical window
- c) subcostal window
- d) suprasternal notch window
- e) right parasternal window

9. Suprasternal window is?

- a) arch of aorta view
- b) 4 chamber view
- c) 2 chamber view
- d) suprasternal view

10. Long axis parasternal views are these except?

- a. left ventricle
- b. zoomed mitral valve
- c. right ventricular outflow
- d. 4 chamber view

Date: 06.06.2021

From

Dr.R.Chidhambaram
Professor and Head,
Department of Radiology and imaging sciences,
Sri Lakshmi Narayana Institute of Medical Sciences
Bharath Institute of Higher Education and Research,
Chennai.

Through Proper channel

To

The Dean,
Sri Lakshmi Narayana Institute of Medical Sciences
Bharath Institute of Higher Education and Research,
Chennai.

Sub: Completion of value-added course: : **INTEGRATED PHYSIOLOGY TEACHING –
CARDIAC CYCLE**

Dear Sir,

With reference to the subject mentioned above, the department has conducted the
value-added course titled: : **INTEGRATED PHYSIOLOGY TEACHING –CARDIAC CYCLE**
: for 20 medical students (2 batches) .

We solicit your kind action to send certificates for the participants, that is attached with this letter.
Also, I am attaching the photographs captured during the conduct of the course.

Kind Regards,

Dr.R.Chidhambaram.



Encl: Certificates

Photographs

DEPARTMENT OF RADIOLOGY,
SRI LAKSHMINARAYANA
INSTITUTE OF MEDICAL SCIENCE
PUDUCHERRY - 605 002.