

Sri Lakshmi Narayana Institute of Medical Sciences

Date 02/07/2017

From Dr.K.R.Jothikumar, Professor and Head, otorhinolaryngology, SLIMS Bharath Institute of Higher Education and Research, Puducherry.

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

Sub: Permission to conduct value-added course: : Hands on training on Audiological Evaluation Using Pure Tone Audiometry reg.

Dear Sir,

With reference to the subject mentioned above, the department proposes to conduct a value-added course titled: Simulation Based Training In Audiology on July 2017 to Dec 2017. We solicit your kind permission for the same.

Kind Regards

Dr.K.R. Jothikumar

FOR THE USE OF DEANS OFFICE

Names of Committee members for evaluating the course: The Dean: The HOD: The Expert:

The committee has discussed about the course and is approved.

Dean

(Sign&Seal) DEAN Prof.K.BALAGURUNATHAN.M.5 (General surgeon) SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES OSUDU PONDICHERRY



SUBJECT EXPERT (Sign &Seal)





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] [Affliated to Bharath University, Chennai - TN]

Ref. No. SLIMS/Dean Off/VAC/024

Date:03/07/17

From The Dean Sri Lakshmi Narayana Institute of Medical sciences, Pondicherry – 605502

То

The Registrar, Bharath Institute of Higher Education and Research, Chennai - 600073.

Respected Sir

Sub: Request for permission and approval of Syllabus for certificate course (Value Added course) for the academic year 2017-18 - Reg
 Ref: Requesting letter received from Departments

With reference to the above, herewith forwarding the proposed list of Value-added

courses for necessary permission and approval of syllabus to conduct the same.

This is for your kind information and needful action.

Thankingyou

Yours faithfully



Encl's:

- 1. Requesting letter received from department
- 2. Syllabus of thecourse
- 3. Details of faculty handlingcourse

Sri Lakshmi Narayana Institute of Medical Sciences, Puducherry

VALUE ADDED COURSE : Hands on training on Audiological Evaluation Using Pure Tone Audiometry

COURSE CO-ORDINATOR DETAILS

Faculty Name: Dr. Kalaiarasi. R

Email ID:entslims@gmail.com



Ref. No. BHIER/ VAC/B-02

Date:05.07.2017

From

The Registrar, Bharath Institute of Higher Education and Research, Chennai - 600073.

То

The Dean Sri Lakshmi Narayana Institute of Medical sciences, Pondicherry – 605502

Sir / Madam,

- Sub: Approval of Syllabus to conduct certificate course (Value Added course) for the academic year 2017-2018 Reg.
- Ref: Ref. No. SLIMS/Dean Off/VAC /024 Dated: 03.07.2017

With reference to the above, it is to inform that the proposal submitted to conduct Value Added Course has been accepted and approved by BIHER, council meeting. List of the VAC are mentioned below for the academic year 2016–2017. The abstract of the VAC course completion detail should be submitted to the Registrar office.

Thanking you

Yours faithfully



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] [Affliated to Bharath University, Chennai • TN]

<u>Circular</u>

07/07/2017

Sub: Organising Value-added Course: Hands on training on Audiological Evaluation Using Pure Tone Audiometry **reg.**

With reference to the above mentioned subject, it is to bring to your notice that SLIMS,**Bharath Institute of Higher Education and Research**, is organising **"Hands on training on Audiological Evaluation Using Pure Tone Audiometry"**. 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 15/07/2017. Applications received after the mentioned date shall not be entertained under any circumstances.

DEAN

DEAN Prof.K.BALAGURUNATHAN.M.5 (General surgeon) SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES OSUDU PONDICHERRY

Encl: Copy of Course content

VALUE ADDED COURSE

1. Name of the programme &Code

Hands on training on Audiological Evaluation Using Pure Tone Audiometry– A value added course for the medical students.

&ENT 05

2. Duration & Period

30 hrs & July 2017-Dec 2017

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:

Pre test and post test which includes 10 mcqs - Enclosed as Annexure- III

6. Certificate model

Enclosed as Annexure- IV

7. No. of times offered during the same year:

1 time July 2017- Dec 2017

8. Year of discontinuation:2018

9. Summary report of each program year-wise

	Value Added Course- July 2017- Dec 2017								
Sl.	Course	Course Name	Resource Persons	Target Students	Strength &				
No	Code				Year				
1	ENT 05	Hands on training on Audiological Evaluation Using Pure Tone Audiometry	1.Dr.Venkataramanan 2. Dr. Sreedhar.B 3.Dr. kalaiarasi.R	3 rd year MBBS students	9 students & 2017				

10. Course FeedBack

Enclosed as Annexure- V

RESOURCEPERSON

1. Dr.K.R.Jothikumar

2. Dr.R.Venkataramanan

COORDINATOR Dr.R.Kalaiarasi

COURSE PROPOSAL

1. NAME OF THE PROGRAMME

Hands on training on Audiological Evaluation Using Pure Tone Audiometry- A value added course for the medical students.

2. AIM

Training the students in Hands on training on Audiological Evaluation Using Pure Tone Audiometry

3. OBJECTIVES

a) To teach the students how to use Pure tone audiometry for audiological evaluation and to interpret the same

b) Hands on training on PTA in normal subjects and patients with hearing loss

4. METHODOLOGY

Students who are interested in participating in value added course are enrolled and the course is conducted for them during the non college hours for a period of 30 hours from July 2017 – Dec 2017 . This course is conducted every 6 months.

Course Audience: 3rd year MBBS students

Course Coordinator: Dr. Kalaiarasi .R

Course Faculties with Qualification and Designation:

1.Dr.K.R. jothikumar

2.Dr. Sreedhar.B

3.Dr. R. Venkataramanan

Schedule followed during the course

No	Topic	Title	Duration	Date and time
1	Hands on training on Audiological Evaluation	Introduction on pure tone audiometry	2hrs	4pm-6pm(7/7/17)
	Using Pure Tone Audiometry			
		Self recordingcomputerised audiometry -lecture	3hrs	4pm-6pm(16/8/17),4pm-5pm(18/8/17)
		Interpretation of audiograms	4hrs	4pm-6pm(12/9/17),4pm-6pm(14/9/17)
		Limitations and fallacies	4hrs	4pm-6pm(13/10/17),4pm-6pm(15/10/17)
		Other tests using PTA	5hrs	4pm-6pm(23/10/17),4pm-
				6pm(17/10/17,4pm-5pm(4/11/17)
		Demonstration of pure tone audiometry in normal subjects and	6hrs	4pm-6pm(9/11/17),4pm-
		patients with hearing loss		6pm(15/11/17),4pm-6pm(21/11/17)
		Hands on training on PTA in normal subjects and patients with	6hrs	4pm-6pm(2/12/17),4pm-6pm(6/12/17),4pm-
		hearing loss & DOPS		6pm(10/12/17)
		TOTAL	30HRS	

REFERENCE BOOKS: 1) SCOTT BROWN 7th edition

2) ANIRBAN BISWAS 1st edition

PURE TONE AUDIOMETRY

INTRODUCTION

- Pure tone audiometry is used to measure auditory threshold of an individual
- The instrument used in this measurement is known as the audiometer
- This is a subjective investigation, the accuracy of which is dependent on the response of the patient

AUDIOMETER



- This has been defined by International Electrochemical Commission 1976 as an instrument used to measure the acuity of hearing and auditory threshold.
- There are two types of audiometers: subjective and objective ones.
- Pure tone audiometer subjective
- Impedance / BERA Objective

PURE TONES

- Simplest of all sounds
- Specific and single frequency
- Described by their frequency, amplitude, phase and duration
- Pure tone amplitude is quantified in decibel
- Pure tone audiometry provides information about the type of hearing loss and also helps in quantifying frequency specific threshold elevation.
- Increase in stiffness of middle ear causes low frequency hearing loss, where as increase in mass effect
 of middle ear causes high frequency hearing loss

FEATURES OF AN AUDIOMETER

- It generates pure tone
- Frequency of the tone generated can be selected
- Intensity of the tone generated can be selected
- It has the ability to route tonal stimuli to either ear
- Tone generated may be of intermittent / continuous type. This is controlled by the presence of an interrupter switch

TYPES OF PURE TONE AUDIOMETERS

- Type I audiometer Full fledged audiometer
- Type II audiometer Does not have speakers hence free field audiometry is not possible with this.
- Type III audiometer Portable audiometer without speech audiometry facility
- Type IV audiometer Basic screening audiometer. Has only ear phones

TYPE I AUDIOMETER

- Most comprehensive equipment
- It can measure air conduction thresholds between 125 8,000 Hz and bone conduction threshold ranging between 250 – 6000 Hz
- Maximum intensity for air conduction threshold is 120 dB and bone conduction maximum intensity is about 50 dB lower than this value. Bone oscillators produce distortions above this level.

COMPONENTS OF AN AUDIOMETER

- Oscillator
- Interrupter switch
- Equalization circuit
- Output power amplifier
- Hearing level attenuator
- Output transducers

OSCILLATOR

- This generates pure tones
- Its accuracy ranges between +/- 3% within the specified frequency range
- Frequencies generated include 125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, and 8000 Hz.
- These sounds are electronically generated

INTERRUPTER SWITCH

- Tones should be either switched on or off.
- Continuous tone undergoes decay
- Patient fatigability should also be considered
- It controls the duration of signal presented to the patient
- It is typically in off position when pure tones are presented and can be turned on only on pressing the button.
- It is typically in on position for speech signal

EQUALIZATION CIRCUIT

- This contains resistors which help in equalization of sound generated
- Human threshold for various frequencies are variable
- Human ear is highly sensitive to 2Khz frequency
- It is insensitive to high and low frequencies.

OUTPUT POWER AMPLIFIER

- Signals produced by oscillator needs to be amplified
- This amplifier produces very little distortion
- It has a good signal to noise ratio

HEARING LEVEL ATTENUATOR

- It controls the level of signal from the audiometer within 110-120 dB
- The intensity can be varied in steps of 5 dB
- Attenuator steps should be very accurate

OUTPUT TRANSDUCERS

- Ear phones
- Bone vibrator
- Loud speaker

HEAD PHONES



- Used to test pure tone Air conduction thresholds
- These are supra-aural ear phones
- Should always be calibrated before use
- This type of supra aural ear phones are easy to calibrate
- It has a flat frequency response
- Delivers high output sounds

BONE VIBRATORS



- These have a limited dynamic frequency range
- At low frequencies vibrators show distortions
 Pure tone bone conduction thresholds can me measured
- Placed over mastoid process (8-15 dB lower thresholds)

LOUD SPEAKERS

- Used in free field audiometry
- Used to test infants and children
- Can be used to perform behavioral audiometry

CALIBRATION

- Used to define audiometric zero
- Calibration involves calibration of audiometer, ear phones and bone vibrators
- Can be performed using human volunteers and artificial ears

PROTOCOLS

- Should be tested in sound proof room
- Claustrophobic patients should be handled with care
- Patients with collapsed ear canal should be tested using special ear phones
- Malingerer's should be tested only by an audiologist
- Pt should be seated comfortably
- Otoscopy should be done prior to audiometry
- Test procedure should be fully explained to the patient
- Glasses / ear rings should be removed

PLACEMENT OF HEAD PHONES



- Red head phone is placed over right ear
- The diaphragm is placed over ear canal
- It should fit snugly
- Head band should not be tight

FAMILIARIZATION

- Testing is begun at 1000 Hz and 30 dB
- At this frequency the testee is likely to have residual hearing. At this frequency testing retesting response is reliable
- Testing usually begins with the examinee's self reported better ear, to decide whether masking is
 necessary for testing the other ear
- Pulsed tone is used

HUGHSON - WESTLAKE ASCENDING TECHNIQUE

- Up 5 and down 10 method
- Tones of short duration is used
- Better ear is tested to decided whether masking is necessary
- Started at 1000 Hz at a level above threshold. This frequency is selected because it is an important frequency
- In pts with profound hearing loss the test should be started with 250 Hz because these patients have residual hearing only in low frequencies
- Stimulus is started at 0 dB and increased in steps of 10 dB till the patient responds
- On positive response the volume is decreased by 10 dB. If the pt responds it is decreased by 10 dB and repeated till he does not respond
- On no response the intensity is increased by 5 dB till the pt confirms hearing the tone
- This should be repeated till the pt gives positive response in two out of three attempts at the same dB level
- Tone presented should last between 1-3 seconds



• The readings are plotted with red color indicating right side and blue colour on left side

AUDIOGRAM CHART

chart



Legend

	Resp	onse	No Re	esponse	
MODALITY	LEFT UNSPE	R CIFIED RIGHT	EAR LEFT UNSPECIFIED RIGHT		
AIR CONDUCTION-EARPHONES UNMASKED MASKED	×	•	× q		
BONE CONDUCTION-MASTOID UNMASKED MASKED	>	, (2	<u>ک</u>	
BONE CONDUCTION-FOREHEAD UNMASKED MASKED	r		G	2	
AIR CONDUCTION-SOUND FIELD	* *	\$ Ø	*	\$ 0	
ACOUSTIC-REFLEX THRESHOLD CONTRALATERAL IPSILATERAL	Υ	V T	21	۲. ۲.	

DEGREE OF HEARING LOSS

	8856 5 80 5		
Degree of Loss	Northern and Downs (2002)	Goodman (1965)	Jerger and Jerger (1980)
None	<16	>26	<21
Slight	16-25		
Mild	26-30	26-40	21-40
Moderate	30-50	41-55	41-60
Moderately severe		56-70	
Severe	51-70	71-90	61-80
Profound	>70	>90	×80

^aAlthough all three references cited differ in the value accepted as a profound loss, a loss of 90 dB HL or more is widely accepted as representing a qualitative as well as a quantitative boundary between hearing and deafness.

FACTORS AFFECTING RELIABILITY

- Poor test instructions
- Improper headphone placement
- Rhythmic tone presentation
- Clues from examiner

ENVIRONMENTAL FACTORS AFFECTING RELIABILITY

- Excessive background noise
- Poor ventilation
- Poor lighting
- Invalid equipment calibration

COMPARISON OF AUDIOGRAMS

Term	Description
Flat	<5-dB rise or fall per octave
Gradually falling	5- to 12-dB increase per octave
Sharply falling	15- to 20-dB increase per octave
Precipitously falling	Flat or gradually sloping, then threshold increasing at 25 dB or more per octave
Rising	>5-dB decrease in threshold per octave
Peaked or saucer	20-dB or greater loss at the extreme frequencies, but not at the mid frequencies
Trough	20-dB or greater loss in the mid frequencies (1,000-2,000 Hz), but not at the extreme frequencies (500 or 4,000 Hz)
Notched	20-dB or greater loss at one frequency with complete or near-complete recovery at adjacent octave frequencies

TYPES OF AUDIOGRAM







An example of a moderate to profound mixed hearing loss.

SOME AUDIOGRAM TYPES



Annexure 2 Bharath Institute of Higher Education and Research SLIMS

1	U14MB246	GAUTHAM. B
2	U14MB247	GOKUL. S
3	U14MB248	GUBENDIRAN. R.
4	U14MB249	HARIJAN BALASUBRAMANIAM
4		KANNADASAN
5	U14MB250	HEMALATHA. K
6	U14MB251	HEMANTHKUMAR.T
7	U14MB252	HEMASH. P.A
8	U14MB253	HEMASRI. C
9	U14MB254	ILAMMATHI. K

ANNEXURE 3 SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES

PUDUCHERRY

TOPIC: Hands on training on Audiological Evaluation Using Pure Tone Audiometry (ENT 05) STUDENT NAME: UNIVERSITY NO:

1. Threshold for moderate hearing lossa.26-40dbb.56-70 dbc.41-55 dbd.>90db

2. Subjective test of hearing is:a.pure tone audiometry b.OAEc.BERA D.impedance audiometry

3.Weber Test in Conductive Deafnessa.Sound louder in normal earearc.heard wih equal intensity in both earsd.inconclusive test

4. Tough shaped curve audiogram seen in

a. congenital SNHL b. Otitis media with effusion

c. ototoxicity d. menieres disease

5.positive rinne test is seen in
a.otosclerosisb.csomc.impacted waxd.presbycusis

6. In pure tone audiogram th	e symbol X is used to mark:
a.Air conduction in RE	b.Air conduction in LE
c.Bone conduction in RE	d.no response in air conduction in right
ear	
7. high frequency audiome	try is used in
a. otosclerosis	b. ototoxicity
c. non organic hearing loss	d. menier's disease
8. SISI is specifically for	
a. acoutic trauma	b. otosclerosis
c. meniers disease	d. facial nerve palsy
9.sternger test used in diag	gnosis of
a.non organic hearing loss	b. conductive hearing loss
c.SNHL	d.Mixed hearing loss
10.hearing loss at 65 db.	what will be the grade of deafness
a. mild	b. moderate
c. moderately severe	d. severe

PRE TEST



ANNEXURE 3

SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES

PUDUCHERRY

TOPIC: Hands on training on Audiological Evaluation Using Pure Tone Audiometry (ENT 05)

STUDENT NAME: HEMANI .C. UNIVERSITY NO: U14 MB253

1. Threshold for moderate hearing loss a.26-40db b.5570 db c.41-55 db d.>90db

3.Weber Test in Conductive Deafness

c.heard with equal intensity in both ears

d.inconclusive test

4. Tough shaped curve audiogram seen in

& congenital SNHL b. Otitis media with effusion

c. ototoxicity d. mervieres disease

5.positive rinne test is seen in a efforthrosis b.csom c.impacted wax d.presbycusis



ANNEXURE 3

SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES

PUDUCHERRY

TOPIC: Hands on training on Audiological Evaluation Using Pure Tone Audiometry (ENT 05)

STUDENT NAME: GORNES UNIVERSITY NO: U14 M B247

1. Threshold for moderate hearing loss a.26-40db -b3570 db c.41-55 db d>90db

2. Subjective text of hearing is:

CBERA D.Impedance audiometry

3.Weber Test in Conductive Deafness

a Sound louder in normal ear

cheant with equal intensity in both ears _d3500hclusive test

b sound louder in diseased car

4. Tough shaped curve audiogram seen in

a. congenital SNHL b. Otitis media with effusion

c. ototoxicity

dimphieres ditease

5.positive rince test is seen in

autosclerosis b.csom

c.impacted wax d.presh

d.presbycanis

POST TEST



5

ANNEXURE 3

SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES

PUDUCHERRY

TOPIC: Hands on training on Audiological Evaluation Using Pure Tone Audiometry (ENT OF)

STUDENT NAME: CIGELIC - S UNIVERSITY NO: U14MB247

1. Threshold for moderate hearing loss 8.25-40/b 4-35-70 db c.41-55 db d.>50/db

2. Subjective test of hearing is: etcore tone audiometry b.OAE CBERA

D.Impedance audiometry

3.Weber Test in Conductive Deafness a Sound louder in normal ear

c heard with equal intensity in both ears d inconclusive test

basedfällouder in diseased ear

4. Tough shaped curve audiogram seen in

Congenital Shirls b Otitis media with effusion c. ototoxicity d. mehieres disease

S positive finne test is seen in Accordings & coord

c.impacted wax d.presbycusis

6. In pure tone audiogram the symbol X is used to mark:

Mair conduction in LE a.Air conduction in RE

d.no response in air conduction in right ear c.Bone conduction in RE

7. high frequency audiometry is used in

b. ototoxicity a, otosclerosia

c.acm organic hearing loss d. menier's disease

.

IL SISI is specifically for:

.b. thoscierosis a. acoutic trauma

d facial nerve palsy c. meniers disease

9.sternger test used in diagnosis of -antion organic hearing loss b conductive hearing loss CSNHL d.Mixed hearing lots

10 hearing loss at 65 db. what will be the grade of deafness

a.mld moderately severe

b. moderate d. severe

ANNEXURE 3

SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES

PUDUCHERRY

TOPIC: Hands on training on Audiological Evaluation Using Pure Tone Audiometry (ENT 05)

STUDENT NAME: HENTONSIC . C UNIVERSITY NO: U14M B253

1. Threshold for moderate hearing loss

a.25-40db	-b:56-70 db
c.41-55 db	d.>90db

2. Subjective test of hearing is: arpure tone audiometry b.OAE

C.BERA

D.impedance audiometry

3.Weber Test in Conductive Deafness

a Sound louder in normal ear c.heard wih equal intensity in both ears d.inconclusive test

-b:Sound louder in diseased ear

4. Tough shaped curve audiogram seen in

.congenital SNHL	b,	Otitis media	with	effusion

d. menieres disease c. ototoxicity

5.positive rinne test is seen in

-a.otoscierosis b.csom d.presbycusis c.impacted wax

ANNEXURE 4

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 has actively participated in the Value Added Course Hands on training Audiological Evaluation using Pure tone Audiometry held during July 2017 – Dec 2017 Organized by Sri Lakshmi Narayana Institute of						
Medical Sciences, Pondicherry- 605 502, India.						
Dr. K.R. Jothikumar Dr. Kalaiarasi. R RESOURCE PERSON COORDINATOR						



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 Dr.Gokul.S(U14MB247) has actively participated in the Value Added Course Hands on training Audiological Evaluation using Pure tone Audiometry held during July 2017 – Dec 2017 Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry- 605 502, India.

TheR. J. Mannes

Dr. K.R. Jothikumar RESOURCE PERSON

Dr. Kalaiarasi. R COORDINATOR

A<u>nnexure 5</u>

Course/Training Feedback Form Student Feedback Form

Course Name: Hands on training on Audiological Evaluation Using Pure Tone Audiometry

Subject Code: ENT05

Name of Student: _____ Roll No.: _____

We are constantly looking to improve our classes and deliver the best training to you. Your

evaluations, comments and suggestions will help us to improve our performance

SI. 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	1	2	3	4	5

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

Suggestions if any:

Annexure 5

Course/Training Feedback Form

Student Feedback Form

Course Name: Hands on training on Audiological Evaluation Using Pure Tone Audiometry

Subject Code ENT05

Name of Student: GLOBUL S

Roll No. U14 MB247

We are constantly looking to improve our classes and deliver the best training to you. Your

evaluations, comments and suggestions will help us to improve our performance

SL	Particulars	1	2	3	4	5
1	Objective of the course is clear					1
2	Course contents met with your expectations					~
3	Lecturer sequence was well planned					1
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				1	
8	Overall rating of the course	1	2	3	4	5

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

Suggestions if any:

and the second	NUL			
		1. S. 15	1	1.

Annesure 5

Course/Training Feedback Form

Student Feedback Form

Course Name: Hands on training on Audiological Evaluation Using Pure Tone Audiometry

Subject Code: ENT05

Name of Student Net WIGLANNA 12 Roll No.: UIL MB250

We are constantly looking to improve our classes and deliver the best training to you. Your

evaluations, comments and suggestions will help us to improve our performance

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

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

Suggestions if any:

LECTURES WAS GOD AND CLEDE

ANNEXURE 6

Date : 15/12/2017

From Dr.K.R. Jothikumar, Dept of Otorhinolaryngology, SLIMS Bharath Institute of Higher Education and Research, Puducherry.

Through Proper Channel

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

Sub: Completion of value-added course: Hands on training on Audiological Evaluation Using Pure Tone Audiometry reg.

Dear Sir,

With reference to the subject mentioned above, the department has conducted thevalue-added course titled: Hands on training on **Hands on training on Audiological Evaluation Using Pure Tone Audiometry** on July 2017 to Dec 2017. 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.K.R.Jothikumar <HOD Sign and Seal>

Tr.R.JUmmer Seal & Signature of the HOD PROFESSOR & HOD DEPARTMENT OF LINT Stillelahmi Nerayang Institute Of Memori Sciences PONDICHERUIX 1625 122





Sri Lakshmi Narayana Institute of Medical Sciences

Date:08105.2017

Dr.Kamatchi Professor and Head, Department of Microbiology, Sri Lakshmi Narayana Institute of Medical Sciences Bharath Institute of Higher Education and Research, Chennai

Τo

From

The Dean, Sri Lakshmi Natoyana Institute of Medical College Bhruath Institute of Higher Education and Research, Chennai.

Sub: Permission to conduct value-added course: Hospital information system& Environmental health and hygiene

Dear Sir.

With reference to the subject mentioned above, the department proposes to conduct a valueadded course titled: Hospital information system for July to September 2017& Environmentalhealth and hygiene October to November 2017. We solicit your kind permission for the same.

Kind Regards

Dr. Kumatchi

FOR THE USE OF DEANS OFFICE

Names of Committee members for evaluating the course:

The Dean: Dr. Jayalakshmi.G

The HOD: Dr. Kamatchi

The Expert: Dr. Jayapradha.S

The committee has discussed about the course and is approved.

(Concelling

Dean 🐰

(Sign & Scal)

(Sign & Scal)

Subject Expert

(Sign & Seul)