



**Sri Lakshmi Narayana Institute of Medical Sciences**

Date 3/12/2018

From  
Dr K Balagurunathan,  
Professor and Head,  
General Surgery,  
Sri Lakshmi Narayana Institute Of Medical Sciences  
Bharath Institute of Higher Education and Research,  
Chennai.

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

**Sub: Permission to conduct value-added course: ONCOPLASTIC BREAST SURGERY**

Dear Sir,

With reference to the subject mentioned above, the department proposes to conduct a value-added course titled: **ONCOPLASTIC BREAST SURGERY , 30hours course on JAN 2019- JUNE 2019**. We solicit your kind permission for the same.

Kind Regards

**PROFESSOR & HOD**  
**DEPARTMENT OF GENERAL SURGERY**  
Sri Lakshmi Narayana Institute of Medical Sciences  
PONDICHERRY - 605 002

DR K BALAGURUNATHAN

HOD, GENERAL SURGERY

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**FOR THE USE OF DEANS OFFICE**

Names of Committee members for evaluating the course:


The Dean: DR G. JAYALAKSHMI

The HOD: DR ASAYAS BOSCO CHANDRA KUMAR

The Expert: DR M SENTHIL VELAN

The committee has discussed about the course and is approved.



  
**Dr. M. SENTHILVELAN, MS.,**  
Reg. No: 53175  
Professor General Surgery  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Kudalakkam, Puducherry-605 502.



**Dr. G. JAYALAKSHMI, BSc., MBBS., DCCD., M.D.,**  
**DEAN**  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Agaram, Kudalakkam P.O.,  
Villanur Composite, Puducherry-605502.

**PROFESSOR & HOD**  
**DEPARTMENT OF GENERAL SURGERY**  
Sri Lakshmi Narayana Institute of Medical Sciences  
PONDICHERRY - 605 502

Dean

Subject Expert

HOD

(Sign & Seal)

(Sign & Seal)

(Sign & Seal)



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

07.12.2018

### **Sub: Organising Value-added Course: ONCOPLASTIC BREAST SURGERY**

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 “ONCOPLASTIC BREAST SURGERY”.

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 1<sup>ST</sup> January 2019. Applications received after the mentioned date shall not be entertained under any circumstances.

  
Dr. G. JAYALAKSHMI, BSc, MBBS, DICO, M.D.  
DEAN  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Agaram, Villianur Commune Post,  
Puducherry - 605502

**Dean**

## Course Proposal

**Course Title: ONCOPLASTIC BREAST SURGERY**

**Course Objective:**

1. 1. Introduction
2. History of oncoplastic surgery
3. Classification of oncoplastic surgery
4. Volume displacement techniques
5. Mammoplasty techniques
6. Volume replacement techniques
7. Indications of oncoplastic surgery
8. Contraindications of oncoplastic surgery
9. Why should ops be offered to patients
10. Evaluation of outcomes
11. Conclusions
- 12.

**Course Outcome:**

**Course Audience: MBBS UNDERGRADUATES**

**Course Coordinator: DR ASAYAS BOSCO CHANDRA KUMAR**

**Course Faculties with Qualification and Designation:**

1. Dr Asayas Bosco Chandra Kumar , Prof and HOD General Surgery
2. Dr K Balagurunatha, Prof General Surgery
3. Dr M Senthil Velan , Prof General Surgery

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

SINo	Date	Topic	Time	Hours	Faculty
1.	22/1/2019	1. Introduction	4-6PM	2	Dr Asayas Bosco
2.	24/1/2019	2. History of oncoplastic surgery	4-7PM	3	Dr K Balagurunatha
3.	25/1/2019	3. Classification of oncoplastic surgery	4-7PM	3	Dr Asayas Bosco
4.	27/1/2019	4. Volume displacement	4-6PM	2	Dr K Balagurunatha

		techniques			
5.	30/1/2019	5. Mammoplasty techniques	4-7PM	3	Dr Asayas Bosco
6.	2/2/2019	6. Volume replacement techniques	4-7PM	3	Dr M Senthil Velan
7.	4/2/2019	7. Indications of oncoplastic surgery	4-7PM	3	Dr Asayas Bosco
8.	5/2/2019	8. Contraindications of oncoplastic surgery	4-6PM	2	Dr M Senthil Velan
9.	7/2/2019	9. Why should ops be offered to patients	4-6PM	2	Dr M Senthil Velan
10.	9/2/2019	10. Evaluation of outcomes	4-7PM	3	Dr Asayas Bosco
11.	11/2/2019	11. Conclusions	4-6PM	2	Dr M Senthil Velan
			TOTAL HOURS	30	

**REFERENCE BOOKS: (Minimum 2)**

1. Schwartz's Principles of Surgery, 10th Edition
2. Bailey And Love's Short Practice of Surgery 26th Ed
3. Sabiston Textbook of Surgery - The Biological Basis of Modern Surgical Practice, 19E

**VALUE ADDED COURSE**

**1. Name of the programme & Code**

Oncoplastic breast surgery & GS10

**2. Duration & Period**

30 hrs & JAN 2019- JUNE 2019

**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:**

1 TIME , JAN 2019- JUNE 2019


**8. Year of discontinuation: 2019**

**9. Summary report of each program year-wise**

Value Added Courses : JAN 2019- JUNE 2019					
Sl. No	Course Code	Course Name	Resource Persons	Target Students	Strength & Year
1	GS10	Oncoplastic breast surgery	Dr. M SENTHIL VELAN	MBBS	20 (JAN 2019- JUNE 2019)

**10. Course Feed Back**

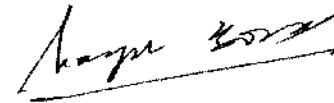
*Enclosed as Annexure- V*

  
**Dr. M. SENTHILVELAN, MS.,**  
Reg. No: 53175  
Professor General Surgery  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Kudalakkam, Puducherry-605 502.

**RESOURCE PERSON**

**DR M SENTHIL VELAN**

**(PROF GENERAL SURGERY)**

  
**PROFESSOR & HOD**  
DEPARTMENT OF GENERAL SURGERY  
Sri Lakshmi Narayana Institute of Medical Sciences  
PONDICHERRY - 605 502

**CO-ORDINATOR**

**DR ASAYAS BOSCO CHANDRAKUMAR**

**(HOD GENERAL SURGERY)**

**ONCOPLASTIC BREAST SURGERY**

**PARTICIPANTS HAND BOOK**

## COURSE DETAILS

Particulars	Description
Course Title	ONCOPLASTIC BREAST SURGERY
Course Code	GS10
Objective	<ol style="list-style-type: none"><li>1. Introduction</li><li>2. History of oncoplastic surgery</li><li>3. Classification of oncoplastic surgery</li><li>4. Volume displacement techniques</li><li>5. Mammoplasty techniques</li><li>6. Volume replacement techniques</li><li>7. Indications of oncoplastic surgery</li><li>8. Contraindications of oncoplastic surgery</li><li>9. Why should ops be offered to patients</li><li>10. Evaluation of outcomes</li><li>11. conclusions</li></ol>



Further learning opportunities	-
Key Competencies	On successful completion of the course the students will have knowledge regarding recent advances about recent advances in radiotherapy and chemotherapy
Target Student	MBBS Students
Duration	30hrs JAN- JUNE 2019
Theory Session	10hrs
Practical Session	20hrs
Assessment Procedure	Multiple choice questions

## Introduction

It took almost a century before the Halstedian approach to breast cancer was replaced by more conservative methods especially for early breast cancer. Breast conservation therapy was tested in several randomized trials by the NSABP group and the Milan Group and it was concluded that BCT and mastectomy were equivalent in terms of local recurrence as well as distant metastases in suitable cases. Breast conservation became the norm in the West where screen detected cancers and smaller palpable tumors were subjected to wide excision and axillary dissection and subsequently sentinel lymph node biopsy. The essence of this evolution in surgical technique has been to offer less mutilating surgeries without compromising oncological outcome. While the goal of BCS was to achieve complete removal of the tumor with adequate surgical margins, preserving the natural shape and appearance of the breast became a challenge. To address this issue, oncoplastic surgical procedures were introduced in recent years. This saw an amalgamation of the best principles of oncology along with plastic surgery leading to optimal oncologic outcomes and safety.

## **History of Oncoplastic surgery (OPS) in Breast Cancer**

It all began in the 1990's. This term was first coined by Audretsch to describe the blending of the oncology and plastic surgery techniques. It was slow to pick up but in the last decade, rapid strides have been made in this area, as the acceptance of the various procedures and the dissemination of information has spread.

## **Classification of Oncoplastic Surgery**

### **Volume Displacement Techniques**

The resected defect is reconstructed by moving a range of local glandular or dermoglandular tissue into the defect. Adjacent tissue rearrangement and various mammoplasty techniques are used to achieve this end.

Adjacent tissue rearrangement is frequently used especially if the volume of breast excised is less than 20%. This is the preferred method in large to medium sized breast with reasonable ptosis and dense glandular tissue. It is also known as Type I oncoplasty. Adjacent tissue rearrangement involves

- a) Accurate placement of skin incision
- b) Skin undermining
- c) Wide excision from skin to muscle
- d) NAC undermining
- e) Glandular reapproximation

#### f) De-epithelialisation and NAC repositioning

These techniques solve 90% of cases requiring oncoplasty. However, this technique may not be desirable in the elderly with fatty breasts where undermining in both the subcutaneous plane and the deep to the gland may compromise the vascularity of the displaced breast tissue. These techniques are simple to perform and do not require specific training. The cosmetic results are good and the re-excision rates are less than 10%.

**Mammoplasty techniques** makes use of various parenchymal flaps to fill the resection defects. They are indicated when 20-50% of the breast volume is likely to be excised, in large-medium sized breast with significant ptosis.. These are immensely useful for tumors in unfavorable locations like the central quadrant, upper inner quadrant and lower quadrants. Contralateral symmetrisation procedures with a similar procedure may benefit women with symptomatic macromastia.

The commonly used flaps are

- 1) The superior pedicle flap- allows for resection of tumours in the lower half of the breast.
- 2) The inferior pedicle flap- allows for resection of tumours located in the upper half of the breast.

Other mammoplasty techniques, which are used in specific clinical situations, are the Round block technique for almost any quadrant, the Grisotti flap for central quadrant tumours, the Batwing approach for upper half tumors located close to the areola etc

### **Volume Replacement Techniques**

Here the resected defect is reconstructed by replacing the excised breast tissue with a similar volume of autologous tissue from an extramammary site. The preferred options include musculocutaneous flaps, pedicled flaps or free flaps

**Musculocutaneous flap-** The most commonly used flap in this category is the latissimus dorsi musculocutaneous flap. This versatile flap has the ability to reach almost all quadrants of the breast, specifically the superior, inferior and lateral aspects of the breast. If skin is required, a posterolateral incision is designed to harvest the flap. If skin is not required then a Mini LD flap can be harvested through an anterolateral or lateral mammary crease incision, which is also used to resect the tumour.

The other flaps based on perforators are

- The thoracodorsal artery perforator flap ( TDAP)- is an adipo-cutaneous flap minus the LD muscle
- The lateral thoracic artery flap – is a fascio-cutaneous flap based on the lateral thoracic artery or the thoracodorsal artery and vein
- The lateral intercostal artery flap( LICAP)- is based on the lateral perforator of the intercostal artery

### **Indications of OPS**

- Breast cancer for which a standard BCS is seemingly impossible without compromising the margins or cosmesis. This includes large tumors, extensive intraductal component, multifocal disease, poor response to neoadjuvant chemotherapy or a high tumor to breast ratio with resection of more than 10-20% of breast volume
- Tumors in any location, especially the central, medial and lower pole tumors

### **Contraindications to OPS**

1. Large tumors that require a mastectomy to achieve clear margins
2. Insufficient residual breast after excision
3. Extensive microcalcifications

4. Multicentric disease
5. Inflammatory Carcinoma
6. Previous irradiation
7. Multiple co morbidities and chronic smoking

### **Why should OPS be offered to patients?**

1. OPS allows for bigger resections, wider margins with good oncologic and cosmetic outcomes
2. OPS may avoid the need for mastectomy and circumvent the morbidity associated with mastectomy and immediate reconstruction. Sensory loss associated with reconstruction is also avoided
3. Secondary operations to correct breast deformities are avoided if primary OPS is undertaken
4. OPS reduces the size of the breast allowing the radiation oncologist ease of delivery radiotherapy
5. Bilateral OPS prevents breast asymmetry and allows for histopathological examination of the contralateral breast and incidental discovery of occult carcinoma.

### **Evaluation of outcomes**

The parameters taken in account to measure outcome are

1. Local recurrence rates
2. Cosmesis
3. Patient satisfaction

Based on the limited studies, which have reported outcomes, local recurrence rates and cosmetic failure are within acceptable limits when compared with conventional BCS.


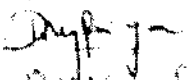
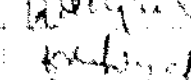


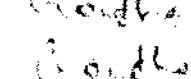
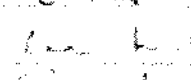
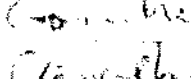
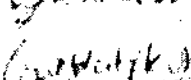

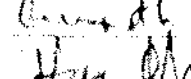
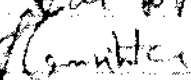
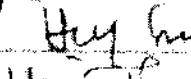

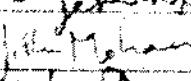
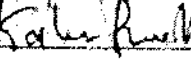




### **Conclusions**

1. OPS has become an integral part of most breast conservation surgeries.
2. Type 1 oncoplasties can be easily mastered and can provide answers for almost 90% of cases
3. Specialised training to pick up plastic surgery techniques are recommended for Type 2 oncoplasties
4. Oncologic and cosmetic outcomes need to be assessed prospectively to establish the safety of this procedure

Annexure- II  
VALUE ADDED COURSE

**ONCOPLASTIC BREAST SURGERY GS10**

**List of Students Enrolled JAN 2019 – JUNE 2019**

MBBS Student			
Sl. No	Name of the Student	Roll No	Signature.
1	DISHAL K P	U17MB291	
2	DIVYA PRIYA K	U17MB292	
3	DIVYANSHU SINGH	U17MB293	
4	ELAKIYA BALA	U17MB294	
5	FEMI SREE RA	U17MB295	
6	GANJI KARTHIK	U17MB296	
7	GOWTHAMAN M	U17MB297	
8	GOKLA VANIGK	U17MB298	
9	GOWTHAM B J	U17MB299	
10	GRANDHI KARISHMA	U17MB300	
11	GREESIMA SHAIK	U17MB301	
12	GUDDATI KOTA SAIYA NAGA S RAMESH	U17MB302	
13	GURUNATHAN S	U17MB303	
14	HARSH BHARTI	U17MB304	
15	HENRITTA I	U17MB305	
16	HIYA SAIKIA	U17MB306	
17	HRITHICK MANICKAM R	U17MB307	
18	JAYASHREE SAIKIA	U17MB308	
19	JITHU MOHAN	U17MB309	
20	KAILA PRASANTH KUMAR	U17MB310	



DISHAL KP  
UI7MB291

SRI LAKSHMI NARAYANA INSTITUTE OF HIGHER EDUCATION  
AND RESEARCH

Annexure - IV

ONCOPLASTIC BREAST SURGERY

MULTIPLE CHOICE QUESTIONS

Course Code: GS10

I. ANSWER ALL THE QUESTIONS

1. Term oncoplastic surgery (OPS) was termed by
  - a. Audretest ✓
  - b. Robert Koch
  - c. Louis Pasteur
  - d. Edward Jenner
  
2. Adjacent tissue rearrangement involves
  - a) Accurate placement of skin incision
  - b) Skin undermining ✓
  - c) Wide excision from skin to muscle
  - d. all of the above
  
3. Mamoplasty techniques are useful in
  - a. tumors in unfavorable locations
  - b. when 20-50% of the breast volume is likely to be excised
  - c. Both A & B are Correct ✓
  - d. none of the above
  
4. commonly used flaps
  - a. superior pedicle flap
  - b. inferior pedicle flap
  - c. gissoti flap ✓
  - d. all of the above



**SRI LAKSHMI NARAYANA INSTITUTE OF HIGHER EDUCATION  
AND RESEARCH**

5. latissmus dorsi adipocutaneous flap is based on

- a. thoraco dorsal artery perforator
- b. lateral thoracic artery
- c. Both A & B are Correct ✓
- d. None of the above

6. contraindications of OPS

- a. Large tumors that require a mastectomy to achieve clear margins
- b. Insufficient residual breast after excision
- c. Extensive microcalcifications
- d. All of the above ✓

7. indications of OPS

- a. high tumor to breast ratio with resection of more than 10-20% of breast volume
- b. Tumors in any location, especially the central
- c. Both A & B are Correct ✓
- d. None of the above

6/2

ASSESSOR NAME : M. SENTHIL VELAN

SIGNATURE

DATE

11/2/2019

DR. M. SENTHILVELAN, MS.

No. 53175

Prof. Genl. Surgery

Sri Lakshmi Narayana

Osaka

Medical Science

507



ONCOPLASTIC BREAST SURGERY

MULTIPLE CHOICE QUESTIONS

Course Code: GS10

I. ANSWER ALL THE QUESTIONS

1. Term oncoplastic surgery (OPS) was termed by

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- b. Robert Koch
- c. Louis Pasteur
- d. Edward Jenner

✓

2. Adjacent tissue rearrangement involves

- a) Accurate placement of skin incision
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✓

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**SRI LAKSHMI NARAYANA INSTITUTE OF HIGHER EDUCATION  
AND RESEARCH**

5. latissimus dorsi adipocutaneous flap is based on

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7. indications of OPS

a. high tumor to breast ratio with resection of more than 10-20% of breast volume

b. Tumors in any location, especially the central

c. Both A & B are Correct

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✓

ASSESSOR NAME :

SIGNATURE :

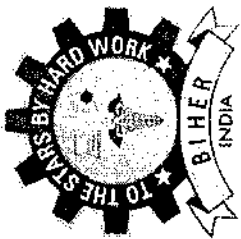
DATE :



11/2/2019

Dr. M. SENTHILVELAN, MS  
Reg. No. 53175  
Professor General Surgery  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Kudapakkam, Puducherry-605 002

5/1



# 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 GREESHMA SHAJI K has actively participated in the Value

Added Course on **ONCOPLASTIC BREAST SURGERY** held during Jan 2019 -- June

2019 Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry- 605

502, India.

**DR. M. SENTHILVELAN, MS.**  
Reg. No. 53175  
Professor General Surgery  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Kudapakkam, Pondicherry-605 502.

**DR. M SENTHIL VELAN**

**RESOURCE PERSON**

**PROFESSOR & HOD**  
DEPARTMENT OF GENERAL SURGERY  
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES  
PONDICHERRY-605 502

**Dr. Asayas Bosco**

**Chandra Kumar**

**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 DISHAL K P has actively participated in the Value Added

Course on **ONCOPLASTIC BREAST SURGERY** held during Jan 2019 – June 2019

Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry- 605 502,

India.

**Dr. M. SENTHILVELAN, MS.**  
Reg. No: 53175  
Professor General Surgery  
Sri Lakshmi Narayana Institute of Medical Sciences  
Osudu, Kudabakkam, Pudukkottai-605 502.

**Dr. M SENTHIL VELAN**

**RESOURCE PERSON**

**PROFESSOR & HOD**  
DEPARTMENT OF GENERAL SURGERY  
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES  
PONDICHERRY - 605 502

**Dr. Asayas Bosco**

**Chandra Kumar**

**COORDINATOR**

## Student Feedback Form

Course Name: ONCOPLASTIC BREAST SURGERY

Subject Code: GS10

Name of Student: Dishal KP Roll No.: U17MB291

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				✓	
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:

Date: 11/2/2019

  
Signature

## Student Feedback Form

Course Name: ONCOPLASTIC BREAST SURGERY

Subject Code: GS10

Name of Student: Growtham BT Roll No.: U17MB290

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					✓
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:

Date: 11/2/2019

Am: [Signature]  
Signature

Date 25/6/2019

From  
Dr Asayas Bosco Chandra Kumar  
Professor and Head,  
General Surgery,  
Sri Lakshmi Narayana Institute Of Medical Sciences  
Bharath Institute of Higher Education and Research,  
Chennai.

Through Proper Channel

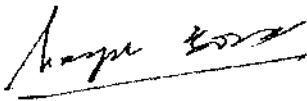
To  
The Dean,  
Sri Lakshmi Narayana Institute Of Medical Sciences  
Bharath Institute of Higher Education and Research,  
Chennai.

**Sub: Completion of value-added course: ONCOPLASTIC BREAST SURGERY**

Dear Sir,

With reference to the subject mentioned above, the department has conducted the value-added course titled: **ONCOPLASTIC BREAST SURGERY** for 20 students on JAN 2019- JUNE 2019. 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



**PROFESSOR & HOD**  
DEPARTMENT OF GENERAL SURGERY  
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES  
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**Encl: Certificates**

**Photographs**



