



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India

Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.

Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

Contact No. : +919789456750, +919943069944, +919943066944

ADD ON COURSE	MARINE DERIVED BIOACTIVE AGENTS
DEPARTMENT	PHARMACOGNOSY
ACADEMIC YEAR	2019-2020
DATE	02.11.2019 – 30.11.2019
VENUE	SEMINAR HALL

## REPORT

### RESOURCE PERSONS

**Mr. R. Suresh, M.Pharm**

Associate professor, JKKMMRF's Annai JKK  
Sampoorani Ammal College of Pharmacy,  
Komarapalayam

No. of Students Enrolled : 64

#### Objectives :

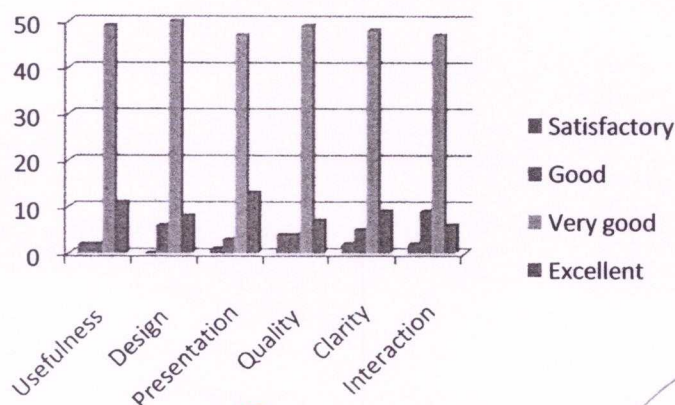
The objective of the course provides the knowledge on Marine products and marine plants produced compounds that have potential as pharmaceuticals. The marine environment became a focus of natural product drug discovery research because of its relatively unexplored bio diversity compared to terrestrial environments.

#### Learning outcomes :

- It is best option to overcome these challenges as it is an unutilized source which is supplied with potential alternative bio active compounds.
- It is a source to develop novel drugs.

The students were actively participated in these course and gained knowledge on

### Student feedback analysis



**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.

**Principal**  
Dr. N.SENTHILKUMAR,  
PRINCIPAL



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REF.NO: JKKM/PH-COGNOSY /REQ/2019/005

Date: 25.10.2019

From

Department of Pharmacognosy,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy,  
Komarapalayam, Namakkal [Dist],  
Tamil Nadu, PIN: 638183.

To

The Principal,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy,  
Komarapalayam, Namakkal [Dist],  
Tamil Nadu, PIN:638183.

Subject: Requesting Permission to conduct Value added - regarding.

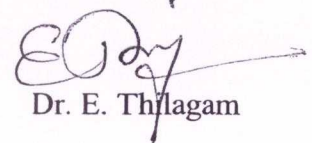
Respected Sir,

With due respect, we humbly request you to grant permission to conduct a Value added course on **Marine Derived Bioactive Agents** during **02.11.2019 to 30.11.2019** in the Seminar Hall. It will be a very informative course for our students.

Kindly do the needful. We will be grateful to you sir.


Thank you

Yours sincerely,

  
Dr. E. Thilagam

Signature of HOD.

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

  
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## CIRCULAR

This is inform to the B.PHARM (II, III AND IV), B.PHARM (I and II SEM) and PHARM.D (I - VI) Students that the following value added course can be conducted by the Department of Pharmacognosy, JKKMMRF's ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY and it will be commenced as per the schedule:

Course Name	Schedule	Duration	Venue
Marine Derived Bioactive Agents	02.11.2019 to 30.11.2019	30 HRS	Seminar Hall

All the above mentioned students must enrol and actively participate in the course without fail.

**NOTE: Certificates should be issued to all the students after completion of the course and examination.**

Dr. N.SENTHILKUMAR,  
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## SYLLABUS

DATE	TOPIC	TIME	DURATION	RESOURCE PERSON
02/11/2019	Marine environment	9.00 -10.30AM	1Hr & 30 mins	Mr. R. Suresh
		10.45-12.15PM	1Hr & 30 mins	
	Current status of marine pharmaceuticals	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
07/11/2019	The ocean as source of nutritional supplements	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15PM	1Hr & 30 mins	
	Mariculture	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
12/11/2019	Marine pharmacology	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15PM	1Hr & 30 mins	
	Clinical trials on Marine drugs	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
22/11/2019	Novel resource of New drugs	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15PM	1Hr & 30 mins	
	Molecular probes	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
29/11/2019	Challenges & future trends	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15PM	1Hr & 30 mins	
	Socio – economic scenario	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
30/11/2019	Marine Species - Management of viral infections	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15PM	1Hr & 30 mins	
	Feed back and Questionnaire session	1.30 - 4.45PM	1Hr & 30 mins	
			1Hr & 30 mins	



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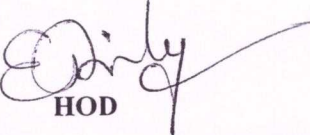


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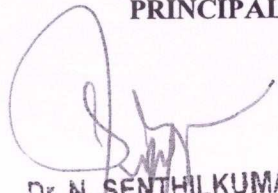
## BROCHURE

 <b>JKKMMRF'S-ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY</b> Komarapalayam, Namakkal - 638183 <i>Value Added Course</i> Organized by Department of Pharmacognosy <i>Topic: Marine Derived Bioactive Agents</i> On: 02.11.2019 to 30.11.2019 <b>Venue: SEMINAR HALL</b>	<p><b>ABOUT US:</b> Dr.J.K.K Munirajah is a reputed industrialist technocrat and educational besides, being a social worker, a person imbued in deep spiritual values and philanthropist. At Present Annai J.K.K Sampoorani Ammal Charitable Trust runs Paramedical Institutions offering Diploma, Graduate, Post Graduate &amp; Ph.D, Courses and Research Scholarships in Pharmacy, nursing Physiotherapy and Occupational Therapy at Komarapalayam. The Trust has won many national and state awards. These renowned Educational Institutions spared education to promote knowledge, wisdom and service -Orientation.</p> 	<p><b>RESOURCE PERSON</b></p>  <b>Mr. R. Suresh, M.Pharm</b> Associate professor, JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam  <b>Mr. V. Suresh Kannan, M.Pharm</b> Assistant professor, JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam
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HOD

  
**Dr. N. SENTHILKUMAR,  
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<b>DEPARTMENT</b>	<b>PHARMACOGNOSY</b>
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<b>VENUE</b>	<b>SEMINAR HALL</b>

## LIST OF STUDENTS ENROLLED FOR THE COURSE

S.NO	Register No	Students Name	Year	Course
1	261910801	ANZIL F	SEM-I	M.PHARM
2	261910802	ELANGO VAN S	SEM-I	M.PHARM
3	261910803	GOKUL S	SEM-I	M.PHARM
4	261910804	KARTHICK V	SEM-I	M.PHARM
5	261910805	KARTHIKEYAN R	SEM-I	M.PHARM
6	261915606	PRABAVATHI C	SEM-I	M.PHARM
7	261915607	SANGEETHA M	SEM-I	M.PHARM
8	261915608	SASI P	SEM-I	M.PHARM
9	261915609	SHINU RAJAN	SEM-I	M.PHARM
10	261940551	FOUZIYA VILAKATHIL	SEM-I	M.PHARM
11	261940552	KRISHNA KUMAR A	SEM-I	M.PHARM
12	261940553	KRISHNA PRIYA C S	SEM-I	M.PHARM
13	261940554	LATHEESH G	SEM-I	M.PHARM
14	261940555	MOHAMMED ASHFAKH P.K	SEM-I	M.PHARM
15	261925701	ARUN PRASANTH S	SEM-I	M.PHARM
16	261925702	ATHIRA A S	SEM-I	M.PHARM
17	261925703	BABY R	SEM-I	M.PHARM
18	261925704	BHAVADHARANI M	SEM-I	M.PHARM
19	261925705	BINIL VARGHESE JOHN	SEM-I	M.PHARM
20	381410420	REENA K.A.	VI	PHARM D
21	381410421	RIYA ELIZABETH SUNNY	VI	PHARM D
22	381410422	SMINU SUNNY	VI	PHARM D
23	381510425	SILVANIA MARTIN	V	PHARM D
24	381610420	ROSHNY A	IV	PHARM D
25	381610421	SABEERBASHA K	IV	PHARM D
26	561958037	KARTHICK M	SEM-I	B.PHARM
27	561958038	KARTHIKA M	SEM-I	B.PHARM
28	561958039	KAVIN P	SEM-I	B.PHARM
29	561958040	KAVINRAJ K	SEM-I	B.PHARM
30	561958041	KAVIPRASANTH S	SEM-I	B.PHARM
31	561958042	KEERTHIHARAN A M A S	SEM-I	B.PHARM
32	561958043	KESAVAN K	SEM-I	B.PHARM
33	561958044	KUMARESAN M	SEM-I	B.PHARM
34	561958045	LOGANATHAN R	SEM-I	B.PHARM
35	561958046	LOGESH R	SEM-I	B.PHARM
36	561958047	MANIKANDARAJA A	SEM-I	B.PHARM
37	561858052	PRIYANKA S	SEM-III	B.PHARM



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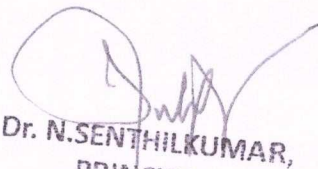
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38	561858053	RAJA V M	SEM-III	B.PHARM
39	561858054	RANJITH R	SEM-III	B.PHARM
40	561858055	RISHI E	SEM-III	B.PHARM
41	561858056	ROHINI V	SEM-III	B.PHARM
42	561858057	ROHIT SUNDHAR S	SEM-III	B.PHARM
43	561858058	SAKTHIVEL L	SEM-III	B.PHARM
44	561858059	SANJAYKUMAR M	SEM-III	B.PHARM
45	561858060	SARAN M	SEM-III	B.PHARM
46	561858061	SATHIYAMOORTHY K	SEM-III	B.PHARM
47	561758031	JAIKUMAR P	SEM-V	B.PHARM
48	561758032	JAWAHAR M	SEM-V	B.PHARM
49	561758034	JEEVITHA G	SEM-V	B.PHARM
50	561758036	KABILAN R	SEM-V	B.PHARM
51	561758037	KALAIYARASAN E	SEM-V	B.PHARM
52	561758038	KAMALRAJ A	SEM-V	B.PHARM
53	561758039	KANNAN A	SEM-V	B.PHARM
54	561758040	KARTHIK KUMAR S	SEM-V	B.PHARM
55	561758041	KARTHIKEYAN M	SEM-V	B.PHARM
56	561758042	KATHIRVEL R	SEM-V	B.PHARM
57	561758043	KAVIN M	SEM-V	B.PHARM
58	561758044	KAVINRAJ G	SEM-V	B.PHARM
59	561758045	KAVIYARASAN D	SEM-V	B.PHARM
60	561758046	KIRUBANITHI S	SEM-V	B.PHARM
61	561758047	KIRUTHIKA V	SEM-V	B.PHARM
62	561758048	LANCY JENIFER R	SEM-V	B.PHARM
63	561758049	LAVANYA V	SEM-V	B.PHARM
64	561758050	LOGESHWARAN G	SEM-V	B.PHARM



  
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30	561958041	KAVIPRASANTH S	SEM-I	B.PHARM	/	/	/	/	/
31	561958042	KEERTHIHARAN A M A S	SEM-I	B.PHARM	/	/	/	/	/
32	561958043	KESAVAN K	SEM-I	B.PHARM	/	/	/	/	/
33	561958044	KUMARESAN M	SEM-I	B.PHARM	/	/	/	/	/
34	561958045	LOGANATHAN R	SEM-I	B.PHARM	/	/	/	/	/
35	561958046	LOGESH R	SEM-I	B.PHARM	/	/	/	/	/
36	561958047	MANIKANDARAJA A	SEM-I	B.PHARM	/	/	/	/	/
37	561858052	PRIYANKA S	SEM-III	B.PHARM	/	/	/	/	/
38	561858053	RAJA V M	SEM-III	B.PHARM	/	/	/	/	/
39	561858054	RANJITH R	SEM-III	B.PHARM	/	/	/	/	/
40	561858055	RISHI E	SEM-III	B.PHARM	/	/	/	/	/
41	561858056	ROHINI V	SEM-III	B.PHARM	/	/	/	/	/
42	561858057	ROHIT SUNDHAR S	SEM-III	B.PHARM	/	/	/	/	/
43	561858058	SAKTHIVEL L	SEM-III	B.PHARM	/	/	/	/	/
44	561858059	SANJAYKUMAR M	SEM-III	B.PHARM	/	/	/	/	/
45	561858060	SARAN M	SEM-III	B.PHARM	/	/	/	/	/



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47	561758032	JAYAPRAKASH D	SEM-V	B.PHARM	/	/	/	/	/
48	561758033	JEEVA S	SEM-V	B.PHARM	/	/	/	/	/
49	561758034	JISHAN M.K	SEM-V	B.PHARM	/	/	/	/	/
50	561758035	JOHN PAUL E	SEM-V	B.PHARM	/	/	/	/	/
51	561758037	KALAIYARASAN E	SEM-V	B.PHARM	/	/	/	/	/
52	561758038	KAMALRAJ A	SEM-V	B.PHARM	/	/	/	/	/
53	561758039	KANNAN A	SEM-V	B.PHARM	/	/	/	/	/
54	561758040	KARTHIK KUMAR S	SEM-V	B.PHARM	/	/	/	/	/
55	561758041	KARTHIKEYAN M	SEM-V	B.PHARM	/	/	/	/	/
56	561758042	KATHIRVEL R	SEM-V	B.PHARM	/	/	/	/	/
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62	561758048	LANCY JENIFER R	SEM-V	B.PHARM	/	/	/	/	/
63	561758049	LAVANYA V	SEM-V	B.PHARM	/	/	/	/	/
64	561758050	LOGESHWARAN G	SEM-V	B.PHARM	/	/	/	/	/



  
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a) Cytarabine  
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- 4) Who is the famous marine science?  
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d) Thesis
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a) Patellazole B  
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6) Benefit of phytoplankton supplements are

- a) Lower muscle damage
- b) Higher muscle damage
- c) Muscle weakness
- d) Muscle pain

7) \_\_\_\_\_ are the most primitive and simply organized algae present in marine environment

- a) Macro algae
- b) Micro algae
- c) Microphytes
- d) Fungi

8) Marine based supplements that nourishing hair are taken from

- a) Oyster
- b) Sea horse
- c) Jelly fish
- d) Octopus

9) What is the marine source of drug

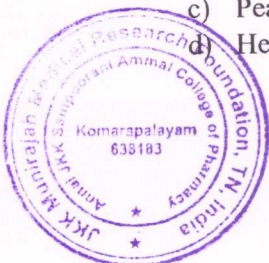
- a) sponges
- b) soft corals
- c) sea fans
- d) All the above

10) In Marine culture, floating types of cages are used if the water bodies are deeper than

- a) 3m
- b) 5m
- c) 10m
- d) 15m

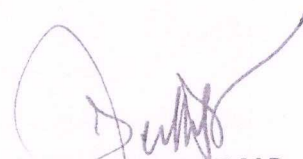
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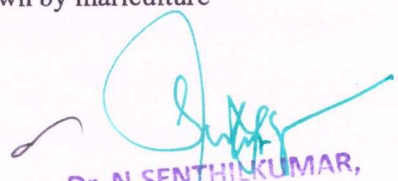
16) What are the applications of marine biotechnology

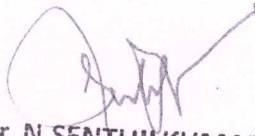
- a) Disease Resistance
- b) Growth Rate
- c) Reproduction
- d) All of the above

17) What are the organisms grown by mariculture

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18) Salinosporamide A - An anti cancer agent is isolated from

- a) *Salinispora tropica*
- b) *Ircinia fasciculata*
- c) *Penicillium chrysogenum*
- d) *Chromobacterium violaceum*

19) Bryostatin 1 is used as

- a) Anti viral
- b) Anti cancer
- c) Anti protozoal
- d) Ant inflammatory

20) which of the followings are marketed marine drugs

- a) Vira A
- b) Fludara
- c) Prialt
- d) All of the above

21) What is the chemical class of Cytarabine

- a) Alkaloids
- b) Glycosides
- c) Nucleosides
- d) Peptides

22) The therapeutic potential of *Conus magus* toxin is

- a) Analgesics
- b) Anti pyretics
- c) Anti microbial
- d) Anti bacterial



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23) Which of the following is not the uses of omega 3 fatty acid

- a) Protection of cognitive function
- b) Prevention of depression
- c) Tissue repair
- d) Artherosclerosis

24) What are major threats to marine systems from human activities

- a) ocean acidification
- b) ocean warming.
- c) the introduction of invasive species
- d) All of the above

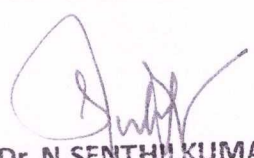
25) What are three physical environmental factors that affect marine life

- a) Temperature
- b) Carbon dioxide content (acidification)
- c) Sea-ice extent
- d) All of the above



  
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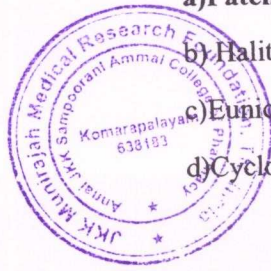



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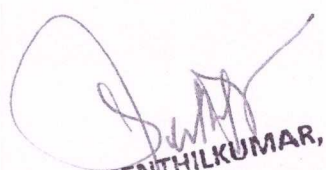
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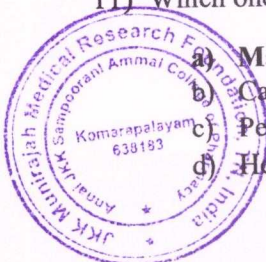




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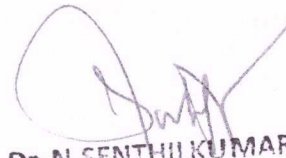
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- d) *Chromobacterium violaceum*

19) Bryostatin 1 is used as

- a) Anti viral
- b) **Anti cancer**
- c) Anti protozoal
- d) Ant inflammatory

20) which of the followings are marketed marine drugs

- a) Vira A
- b) Fludara
- c) Prialt
- d) **All of the above**


21) What is the chemical class of Cytarabine

- a) Alkaloids
- b) Glycosides
- c) **Nucleosides**
- d) Peptides

22) The therapeutic potential of *Conus magus* toxin is

- a) **Analgesics**
- b) Anti pyretics
- c) Anti microbial
- d) Anti bacterial



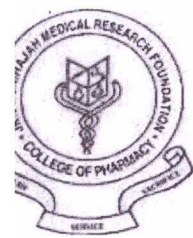
  
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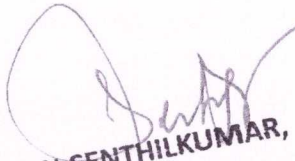





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- 23) Which of the following is not the uses of omega 3 fatty acid
- a) Protection of cognitive function
  - b) Prevention of depression
  - c) Tissue repair**
  - d) Artherosclerosis
- 24) What are major threats to marine systems from human activities
- a) ocean acidification
  - b) ocean warming.
  - c) the introduction of invasive species
  - d) All of the above**
- 25) What are three physical environmental factors that affect marine life
- a) Temperature
  - b) Carbon dioxide content (acidification)
  - c) Sea-ice extent
  - d) All of the above**

  
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ADD ON COURSE	MARINE DERIVED BIOACTIVE AGENTS
DEPARTMENT	PHARMACOGNOSY
ACADEMIC YEAR	2019-2020
DATE	02.11.2019 – 30.11.2019
VENUE	SEMINAR HALL

## STUDENTS MARK STATEMENT

S.NO	Register No	Students Name	Mark	Percentage
1	261910801	ANZIL F	18	90
2	261910802	ELANGO VAN S	19	95
3	261910803	GOKUL S	16	80
4	261910804	KARTHICK V	15	75
5	261910805	KARTHIKEYAN R	18	90
6	261915606	PRABAVATHI C	17	85
7	261915607	SANGEETHA M	18	90
8	261915608	SASI P	19	95
9	261915609	SHINU RAJAN	20	100
10	261940551	FOUZIYA VILAKATHIL	16	80
11	261940552	KRISHNA KUMAR A	20	100
12	261940553	KRISHNA PRIYA C S	18	90
13	261940554	LATHEESH G	18	90
14	261940555	MOHAMMED ASHFAKH P.K	18	90
15	261925701	ARUN PRASANTH S	19	95
16	261925702	ATHIRA A S	16	80
17	261925703	BABY R	15	75
18	261925704	BHAVADHARANI M	18	90
19	261925705	BINIL VARGHESE JOHN	17	85
20	381410420	REENA K.A.	18	90
21	381410421	RIYA ELIZABETH SUNNY	19	95
22	381410422	SMINU SUNNY	20	100
23	381510425	SILVANIA MARTIN	16	80
24	381610420	ROSHNY A	18	90
25	381610421	SABEERBASHA K	19	95
26	561958037	KARTHICK M	16	80
27	561958038	KARTHIKA M	15	75
28	561958039	KAVIN P	18	90
29	561958040	KAVINRAJ K	17	85
30	561958041	KAVIPRASANTH S	18	90
31	561958042	KEERTHIHARAN A M A S	19	95
32	561958043	KESAVAN K	20	100
33	561958044	KUMARESAN M	16	80
34	561958045	LOGANATHAN RILKUMAR,	18	90
35	561958046	LOGESH R	19	95



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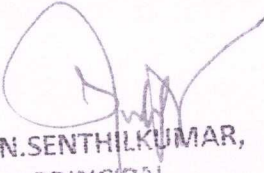
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36	561958047	MANIKANDARAJA A	16	80
37	561858052	PRIYANKA S	15	75
38	561858053	RAJA V M	18	90
39	561858054	RANJITH R	17	85
40	561858055	RISHI E	18	90
41	561858056	ROHINI V	19	95
42	561858057	ROHIT SUNDHAR S	20	100
43	561858058	SAKTHIVEL L	16	80
44	561858059	SANJAYKUMAR M	19	95
45	561858060	SARAN M	20	100
46	561858061	SATHIYAMOORTHI K	16	80
47	561758031	JAIKUMAR P	18	90
48	561758032	JAWAHAR M	19	95
49	561758034	JEEVITHA G	16	80
50	561758036	KABILAN R	15	75
51	561758037	KALAIYARASAN E	18	90
52	561758038	KAMALRAJ A	19	95
53	561758039	KANNAN A	20	100
54	561758040	KARTHIK KUMAR S	16	80
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56	561758042	KATHIRVEL R	16	80
57	561758043	KAVIN M	15	75
58	561758044	KAVINRAJ G	18	90
59	561758045	KAVIYARASAN D	19	95
60	561758046	KIRUBANITHI S	20	100
61	561758047	KIRUTHIKA V	19	95
62	561758048	LANCY JENIFER R	17	85
63	561758049	LAVANYA V	18	90
64	561758050	LOGESHWARAN G	19	95

  
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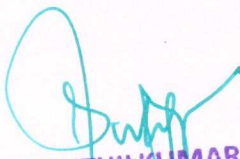
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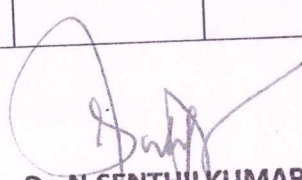
## FEEDBACK FORM

NAME OF THE STUDENT: Ansil. F  
COURSE : M. Pharm I. Sem  
TOPIC : Marine derived bioactive agents.  
CONTACT NO : 7542659308

REGISTER NO: 261910801.  
DATE: 30/11/2019  
EMAIL: [ansil.f.27@gmail.com](mailto:ansil.f.27@gmail.com)

S.no	Description	Satisfactory	Good	Very good	Excellent
1.	Usefulness of the information provided			✓	
2.	Design of the session ? (Organization, format, pacing)			✓	
3.	Presentation of information		✓		
4.	Overall quality of the session		✓		
5.	Clarity in delivering concepts			✓	
6.	Interaction		✓		

  
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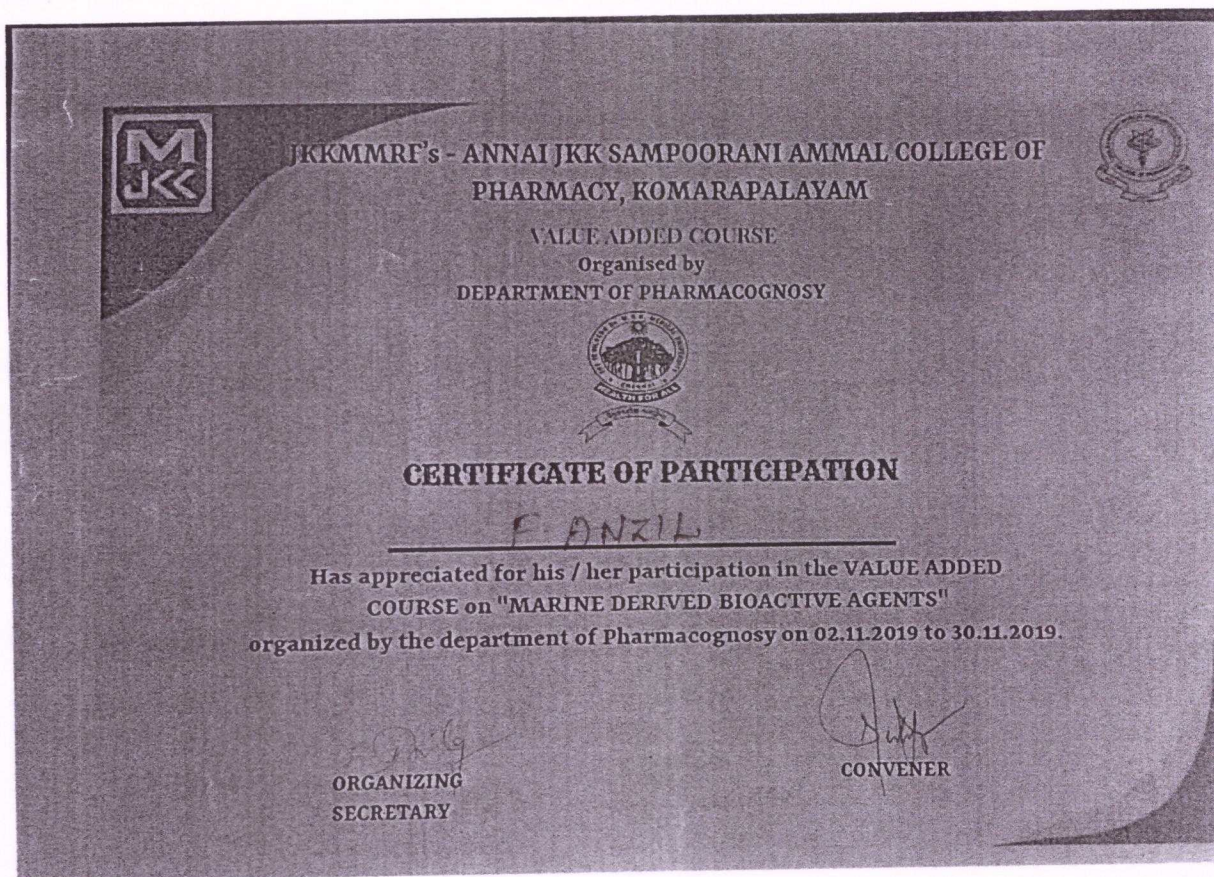
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## CERTIFICATE



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