



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

Ethirmedu, 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 | E-Mail : principal@jkkmmrfpharmacy.edu.in

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

ADD ON COURSE	CARBON CLUSTER
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2017-2018
DATE	05.03.2018-22.03.2018
VENUE	SEMINAR HALL

REPORT

RESOURCE PERSONS:

1.MR.R. VIJAY AMIRTHARAJ.,M.PHARM,

VICE PRINCIPAL,
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
KOMARAPALAYAM.

2.MRS. B. ANBARASI., M.PHARM,

ASSOCIATE PROFESSOR,
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
KOMARAPALAYAM.

No. of students enrolled: 66

No. of students certified: 62

Objective:

The objective of this value added water chemistry program provides the information about the CARBON CLUSTERS. Value added program provides additional knowledge to the students other than their academic knowledge. Carbon clusters were the highly advanced carbon materials study and to obtain knowledge on carbon nanotubes.

Learning outcomes:

- Provides knowledge on Fullerenes
- Gives more idea on textures in carbon materials
- Develops the industrial skills on synthesis of carbon nanotubes.

The students were actively participated in this course and gained knowledge on CARBON CLUSTERS


Programme

Co-ordinator


HOD


Dr. N.SENTHILKUMAR,
PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.


Principal
Dr. N. SENTHILKUMAR,
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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ETHIRMEDU, KOMARAPALAYAM - 638 183.
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Contact No. : +919789456750, +919943069944, +91994306694

REF.NO: JKKM/-PHARM.CHEM/REQ/2018/002

Date:02.03.2018

From

Department of Pharmaceutical chemistry,

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.

Respected Sir,

Sub: Letter for requesting Permission to Conduct an **ADD ON COURSE**, reg.

We Are writing this letter to request permission to conduct a seminar in the **seminar hall** on **05.03.2018 to 22.03. 2018**. We wish to conduct a seminar regarding the **Carbon Clusters**. We believe this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **Carbon Clusters**.that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Yours sincerely,

DR. N.SENTHILKUMAR,
PRINCIPAL

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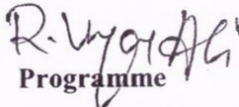
CIRCULAR

This is informed to the II, III & IV - B. Pharm Students that the following value-added course can be conducted by the Department of Pharmaceutical Chemistry, JKKMMRF'S Annai JkkSampoorani Ammal College of Pharmacy, Komarapalayam and it will be commenced as per the schedule:

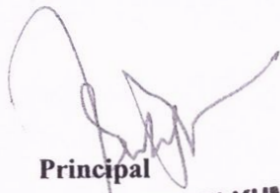
Course Name	Schedule	Duration	Venue	Resource Person
CARBON CLUSTERS	05.03.2018 To 22.03.2018	32 HRS	SEMINAR HALL	Mr.R. VijayAmirtharaj & Mrs.B.Anbarasi

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.


Programme
Co-ordinator


HOD


Principal

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VENUE	SEMINAR HALL

SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
05.03.2018	6 hrs	CARBON CLUSTERS	Carbon Fullerenes	MR.R. VIJAYAMIRTHARAJ & MRS.B. ANBARASI
06.03.2018	6 hrs		Fullerene collisions	
09.03.2018	5 hrs		Coating of fullerenes	
12.03.2018	4 hrs		Optical properties of carbon clusters	
15.03.2018	6 hrs		Metal carbon clusters	
22.03.2018	5 hrs		Carbon nanotubes	




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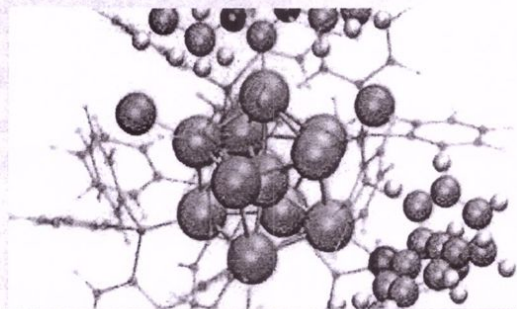
BROCHURE



**JKKMMRF'S ANNAI JKK
SAMPOORANIAMMAL COLLEGE OF
PHARMACY, KOMARAPALAYAM.**

**DEPARTMENT OF
PHARMACEUTICAL CHEMISTRY**

TOPIC: CARBON CLUSTERS



VENUE: SEMINAR HALL

DATE: 05.03.2018 TO 22.03.2018

TIME: 9.00 am to 6.00 pm



COURSE SCHEDULE:

- CARBON FULLERENES
- FULLERENE COLLISION
- COATING OF FULLERENES
- OPTICAL PROPERTIES OF CARBON CLUSTER
- METAL CARBON CLUSTER
- CARBON NANOTUBES

Resource person:

MR.R.VIJAY AMIRTHARAJ, M.Pharm.,
Vice principal,
JKKMMRF'S Annai JKK Sampoornani Ammal
College of Pharmacy,
Komarapalayam.



MRS.B.ANBARASI, M.Pharm.,
Associate Professor,
JKKMMRF'S Annai JKK Sampoornani Ammal
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LIST OF STUDENTS ENROLLED FOR THE COURSE

S.NO	REG.NO	NAME OF THE STUDENT	COURSE
1	561658021	HARI KRISHNAN K	II B.PHARM
2	561658022	JAFERI SANDOSH A	II B.PHARM
3	561658023	JAMBULINGAM P	II B.PHARM
4	561658024	JAYASHREE L	II B.PHARM
5	561658025	JEEVANANTHAM T	II B.PHARM
6	561658026	KAMALI V	II B.PHARM
7	561658027	KARTHICK S	II B.PHARM
8	561658028	KARTHIKEYAN K	II B.PHARM
9	561658029	KARTHIKEYAN N	II B.PHARM
10	561658030	KARTHIKEYAN S	II B.PHARM
11	561658031	KAVIN M	II B.PHARM
12	561658032	KAVIN M	II B.PHARM
13	561658033	KRISHNAMOORTHY K	II B.PHARM
14	561658034	LAKSMANAN P	II B.PHARM
15	561658035	MADHEEHA	II B.PHARM
16	561658037	MANISHA M	II B.PHARM
17	561658038	MARIMUTHU P	II B.PHARM
18	561658039	MOHAMED YASEEN M	II B.PHARM
19	561658040	MOHAMMED RISAL T	II B.PHARM
20	561658041	MOHANKUMAR R	II B.PHARM
21	561658042	MUTHUMURUGAN M	II B.PHARM
22	561458026	MOHAMMED SHAHSHAD T K	IV B.PHARM
23	561458027	MURUGESAN.C	IV B.PHARM
24	561458028	NADHIYA.M	IV B.PHARM
25	561458029	NAVEEN.P	IV B.PHARM



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26	561458030	NAVINKUMAR.V	IV B.PHARM
27	561458031	NEDUNCHALIAN.A	IV B.PHARM
28	561458032	PARKAVI V	IV B.PHARM
29	561458033	PRABHU.A	IV B.PHARM
30	561458034	PRAVEENA.P	IV B.PHARM
31	561458035	PUGAZHENTHI.S	IV B.PHARM
32	561558001	ALSIYA.S	III B.PHARM
33	561558003	ANUSIYA.A	III B.PHARM
34	561558004	ARUN.K.C	III B.PHARM
35	561558005	ASHOKKUMAR.A	III B.PHARM
36	561558006	BHUVANESHWARAN.B	III B.PHARM
37	561558007	DEEPIKA.V	III B.PHARM
38	561558008	DINESH.M	III B.PHARM
39	561558009	DINESHKUMAR.M	III B.PHARM
40	561558010	EZHUMALALE	III B.PHARM
41	561558011	GAYATHRI.M	III B.PHARM
42	561558012	GAYATHRI.S	III B.PHARM
43	561558013	GEETHAMALAR.R	III B.PHARM
44	561558014	GOKULAVASAN.S	III B.PHARM
45	561558015	GOVINDARAJ.M	III B.PHARM
46	561558017	JANARTHANAN.K	III B.PHARM
47	561558018	JAYASEELAN.M	III B.PHARM
48	561558019	KIRUBAKARAN.K	III B.PHARM
49	561558020	KOSHILA.K.S	III B.PHARM
50	561458018	KRISHNA PRIYA.C.S	IV B.PHARM
51	561458020	LOGESHWARAN.V	IV B.PHARM
52	561458021	MADHAN.R	IV B.PHARM
53	561458022	MADONDO JULIAN.T	IV B.PHARM
54	561458024	MANIMEGALAI.A	IV B.PHARM
55	561458025	MANIMEGALAI.A	IV B.PHARM
56	561658081	SOUNDARA RAJA VEL K	II B.PHARM
57	561658082	SREEKANTH P	II B.PHARM
58	561658083	SRIRANGANATHAN RADHAKRISHNAN	II B.PHARM
59	561658084	SUDHAKAR K	II B.PHARM
60	561658085	SURYA S	II B.PHARM
61	561658086	SYED ASIF A	II B.PHARM
62	561658087	SYED MOHAMED S	II B.PHARM
63	561658088	TAMILARASAN M	II B.PHARM
64	561658089	TAMILARASU A	II B.PHARM
65	561658090	VANITHA M	II B.PHARM
66	561658091	VENKATESH S	II B.PHARM



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2	561658022	JAFERI SANDOSH A	II B.PHARM	✓	✓	✓	✓	✓	✓
3	561658023	JAMBULINGAM P	II B.PHARM	✓	✓	✓	✓	✓	✓
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6	561658026	KAMALI V	II B.PHARM	✓	✓	✓	✓	✓	✓
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	561558005	ASHOKKUMAR.A	III B.PHARM	✓	✓	✓	✓	✓	✓

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60	561658085	SURYA S	II B.PHARM	✓	✓	✓	✓	✓	✓
61	561658086	SYED ASIF A	II B.PHARM	✓	✓	✓	✓	✓	✓
62	561658087	SYED MOHAMED S	II B.PHARM	✓	✓	✓	✓	✓	✓



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NAME: V. DEEPIKA

iii B-PHARM

ANSWER ALL THE QUESTION

DATE: 22.03.2018

MULTIPLE CHOICE QUESTION

MARKS:20

1. Which of the following statements are correct for carbon compounds?

- (i) Most carbon compounds are good conductors of electricity.
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- (iii) Force of attraction between molecules of carbon compounds is not very strong.
- (iv) Force of attraction between molecules of carbon compounds is very strong.

A. (ii) and (iv)

B. (ii) and (iii)

C. (i) and (iv)

D. (i) and (iii)

2. Why does carbon form compounds mainly by covalent bonding?

A. There are four electrons in the outermost shell of carbon.

B. It requires a large amount of energy to form C^{4+} .

C. It shares its valence electrons to complete its octet.

D. All the above.

Dr. N.SENTHILKUMAR,
PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT. TAMILNADU. INDIA.



3. In a diamond, each carbon atom is bonded to four other carbon atoms to form

- A. A hexagonal array
- B. A structure of a ring
- C. A structure in the shape of a football
- D. A rigid three-dimensional structure

4. A soap molecule has a

- A. Hydrophobic head and a hydrophobic tail
- B. Hydrophobic head and hydrophilic tail
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5. —CHO represents the functional group

- A. Aldehydes
- B. Carboxylic acid
- C. Alcohols
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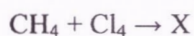
6. Draw the structures for the following compounds:

- A. Ethanoic acid
- B. Bromo pentane
- C. Butanone
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7. The electronic configuration of an element is found to be 2, 4. How many bonds can one carbon atom form in a compound?

- A. 1
- B. 2
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8. The following chemical reaction shows the addition of chlorine to methane in the presence of sunlight:



What is likely to be the product of the reaction represented by "X"?

- A. $\text{CH}_4 + \text{H}_2\text{SO}_4$
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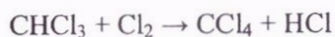
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9. A carbon compound contains two atoms of carbon. Which name should the carbon compound bear?

- A. Butane
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- A. It adds hydrogen to the compound
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11. A student studies that vinegar, which is a diluted form of ethanoic acid, freezes during winter. What does this suggest about the physical properties of pure ethanoic acid?

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12. Which of the following is the molecular formula of cyclobutane?


- A. C_4H_{10}
- B. C_4H_6
- C. C_4H_8
- D. C_4H_4



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14. Methane, ethane and propane are said to form a homologous series because all are:

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- D. C_3H_4

16. Choose the correct statement.

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

Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in

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

ADD ON COURSE	CARBON CLUSTER
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2017-2018
DATE	05.03.2018-22.03.2018
VENUE	SEMINAR HALL

ANSWER ALL THE QUESTION

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MULTIPLE CHOICE QUESTION

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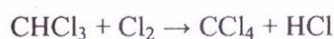



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20. A hydrocarbon should have a minimum of _____ carbon atoms to show isomerism.

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DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2017-2018
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MARKSHEET

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	%MARKS
1	561658021	HARI KRISHNAN K	II B.PHARM	17	85
2	561658022	JAFERI SANDOSH A	II B.PHARM	18	90
3	561658023	JAMBULINGAM P	II B.PHARM	18	90
4	561658024	JAYASHREE L	II B.PHARM	18	90
5	561658025	JEEVANANTHAM T	II B.PHARM	17	85
6	561658026	KAMALI V	II B.PHARM	17	85
7	561658027	KARTHICK S	II B.PHARM	18	90
8	561658028	KARTHIKEYAN K	II B.PHARM	19	90
9	561658029	KARTHIKEYAN N	II B.PHARM	19	90
10	561658030	KARTHIKEYAN S	II B.PHARM	19	90
11	561658031	KAVIN M	II B.PHARM	16	80
12	561658032	KAVIN M	II B.PHARM	17	85
13	561658033	KRISIINAMOORTHY K	II B.PHARM	19	95
14	561658034	LAKSMANAN P	II B.PHARM	20	100
15	561658035	MADHEEHA	II B.PHARM	19	95
16	561658037	MANISHA M	II B.PHARM	19	95
17	561658038	MARIMUTHU P	II B.PHARM	16	80
18	561658039	MOHAMED YASEEN M	II B.PHARM	18	90
19	561658040	MOHAMMED RISAL T	II B.PHARM	18	90
20	561658041	MOHANKUMAR R	II B.PHARM	18	90
21	561658042	MUTHUMURUGAN M	II B.PHARM	19	95
22	561458026	MOHAMMED SHAHSHAD T K	IV B.PHARM	19	95
23	561458027	MURUGESAN.C	IV B.PHARM	19	95
24	561458028	NADHIYA.M	IV B.PHARM	18	90
25	561458029	NAVEEN.P	IV B.PHARM	16	80
26	561458030	NAVINKUMAR.V	IV B.PHARM	19	95
27	561458031	NEDUNCHALIAN.A	IV B.PHARM	19	95
28	561458032	PARKAVI V	IV B.PHARM	18	90
29	561458033	PRABHU.A	IV B.PHARM	16	80
30	561458034	PRAVEENA.P	IV B.PHARM	17	85
31	561458035	PUGAZHENTHI.S	IV B.PHARM	17	85
32	561558001	ALSIYA.S	III B.PHARM	18	90
33	561558003	ANUSIYA.A	III B.PHARM	18	90
34	561558004	ARUN.K.C	III B.PHARM	18	90
35	561558005	ASHOKKUMAR.A	III B.PHARM	20	100
36	561558006	BHUVANESHWARAN.B	III B.PHARM	19	95
37	561558007	DEEPIKA.V	III B.PHARM	20	100
38	561558008	DINESH.M	III B.PHARM	18	90
39	561558009	DINESHKUMAR.M	III B.PHARM	18	90
40	561558010	EZHUMALAI.E	III B.PHARM	19	95
41	561558011	GAYATHRI.M	III B.PHARM	19	95

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42	561558012	GAYATHRI.S	III B.PHARM	18	90
43	561558013	GEETHAMALAR.R	III B.PHARM	17	85
44	561558014	GOKULAVASAN.S	III B.PHARM	18	90
45	561558015	GOVINDARAJ.M	III B.PHARM	20	100
46	561558017	JANARTHANAN.K	III B.PHARM	16	80
47	561558018	JAYASEELAN.M	III B.PHARM	18	90
48	561558019	KIRUBAKARAN.K	III B.PHARM	18	90
49	561558020	KOSHILA.K.S	III B.PHARM	19	95
50	561458018	KRISHNA PRIYA.C.S	IV B.PHARM	19	95
51	561458020	LOGESHWARAN.V	IV B.PHARM	18	90
52	561458021	MADHAN.R	IV B.PHARM	18	90
53	561458022	MADONDO JULIAN.T	IV B.PHARM	18	90
54	561458024	MANIMEGALALA	IV B.PHARM	17	85
55	561458025	MANIMEGALALA	IV B.PHARM	19	95
56	561658081	SOUNDARA RAJA VEL K	II B.PHARM	19	95
57	561658082	SREEKANTH P	II B.PHARM	19	95
58	561658083	SRIRANGANATHAN RADHAKRISHNAN	II B.PHARM	18	90
59	561658084	SUDHAKAR K	II B.PHARM	19	95
60	561658085	SURYA S	II B.PHARM	16	80
61	561658086	SYED ASIF A	II B.PHARM	18	90
62	561658087	SYED MOHAMED S	II B.PHARM	19	95



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ADD ON COURSE FEEDBACK FORM

STUDENT NAME: DEEPIKA V

DATE: 22/3/2018

YEAR/ COURSE: III - B PHARM

NAME OF THE ADD ON COURSE: CARBON CLUSTERS

COURSE CODE: 17VACO08

DURATION: 32 HRS

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
The objectives of the training were	✓			
The instructor's contribution to the course was:		✓		
The presentation materials were relevant		✓		
The instructor's effectiveness in teaching the subject matter was:	✓			
Answers to the student's questions by the instructor	✓			
The venue was appropriate for the event	✓			
Course organisation was:		✓		
Level of course was	✓			
Course content was:		✓		

Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?
A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15 UP
2. What grade do you expect in this course?
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



Dr. N. Senthil Kumar
Dr. N.SENTHILKUMAR,
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Deepika V.
SIGNATURE



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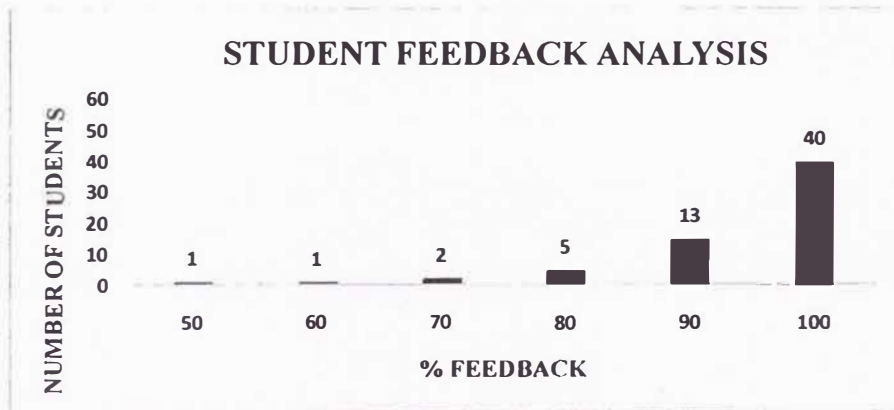
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JKKMMRF'S ANNAI JKK SAMPOORANI
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CERTIFICATE OF PARTICIPATION

This is to certify that MR./MS./MRS.

DEEPIKA.V

Has appreciated for his/ her participation in Value Added Course-

CARBON CLUSTERS

Organised by the Department of Pharmaceutical Chemistry

on 22/3/2018



R. Vignesh

R. N. SENTHILKUMAR,
PRINCIPAL, **COORDINATOR**



[Signature]

CONVENOR

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