



# 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](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

VALUE ADDED COURSE	PHARMACOLOGICAL RESEARCH METHODS
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	04.02.2019 to 14.02.2019
VENUE	SEMINAR HALL

## REPORT

VALUE ADDED COURSE - PHARMACOLOGICAL RESEARCH METHODS

VENUE: SEMINAR HALL DATED: 04.02.2019-14.02.2019

RESOURCE PERSONS:

1. Mr.R. Kannan, M.PHARM,

ASSISTANT PROFESSOR,

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

2. Mr.G.Muthukumar M.PHARM, (Ph.D).,

ASSOCIATE PROFESSOR,

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

No. of students enrolled: 65

No.of students certified: 64


### Objective:

The objective of this value added Pharmacological Research Methods program provides the information about Current Scenario Of Pharmacological Research Methods. It provides vast knowledge on principle, procedure and clinical application of Pharmacological Research Methods. These value added program provides additional knowledge to the students other than their academic knowledge.

### Learning outcomes:

- Provides knowledge on Pharmacological Research Methods
- Develops practical skills on Pharmacological Research Methods

The students were actively participated in these course and gained knowledge on Pharmacological Research Methods.

  
Programme  
Co-ordinator

  
HOD

  
Principal

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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REF.NO: JKKM/PH-COLOGY /REQ/2019/004

Date: 01/02.2019

From,  
Department of Pharmacology,  
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 seminar (**PHARMACOLOGICAL RESEARCH METHODS**)-regarding.

Respected Sir,

With due respect, we humbly request you to grand permission to conduct a seminar in the (Seminar Hall) during (**04.02.2019 to 14.02.2019**) on **PHARMACOLOGICAL RESEARCH METHODS**. 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,

HOD of Department



Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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Dr. N.SENTHILKUMAR,  
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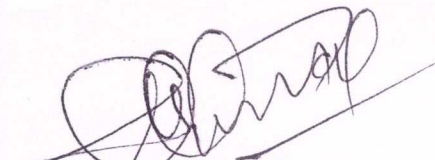
## CIRCULAR

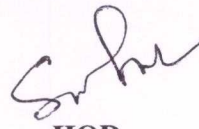
This is inform to the B.PHARM -IV year and M.Pharm-I SEM Students that the following value added course can be conducted by the Department of Pharmacology, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:


Course Name	Schedule	Duration	Venue	Resource Person
PHARMACOLOGICAL RESEARCH METHODS	04.02.2019 to 14.02.2019	32 HRS	SEMINAR HALL	Mr.G.Muthukumaran & Mr.R Kannan

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.

  
Program coordinator

  
HOD

  
Principal

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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## SYLLABUS

S.no	TOPIC	TIME	DURATION	RESOURCE PERSON
1.	Animal models for Pharmacological screening	9.00 -10.30AM	1Hr & 30 mins	Mr.G.Muthukumaran
		10.45-12.15 PM	1Hr & 30 mins	
	Laws and Regulations for animal experiments	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
2.	<i>in vitro</i> methods	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	<i>in silico</i> models	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
3.	Zebrafish model	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Earthworm model for Anthelmintic activity	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
4.	Pigeon model for Malaria life cycle study	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Chicken model for Antineuritic and growth stimulating vitamins study	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	
5.	Sheep model for Pathogenesis of tuberculosis	9.00 -10.30AM	1Hr & 30 mins	
		10.45-12.15 PM	1Hr & 30 mins	
	Toad model for Catalytic conversion glycogen study	1.30-3.00 PM	1Hr & 30 mins	
		3.15-4.45PM	1Hr & 30 mins	

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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## Brochure

**Resource person:**



Mr.G. Muthukumaran, M.PHARM.,  
ASSOCIATE Professor  
Department of Pharmacology  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE  
OF PHARMACY, KOMARAPALAYAM




Mr.R. Kannan , M.PHARM,  
ASSISTANT PROFESSOR,  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE  
OF PHARMACY, KOMARAPALAYAM.

**Topics**


1. Animal models for Pharmacological screening
2. Laws and Regulations for animal experiments
3. *in vitro* methods & *in silico* models
4. Zebrafish model
5. Earthworm model for Anthelmintic activity
6. Pigeon model for Malaria life cycle study
7. Chicken model for Antineuritic and growth stimulating vitamins study
8. Sheep model for Pathogenesis of tuberculosis

VENUE: JKKMMRF - COLLEGE OF PHARMACY SEMINAR HALL



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

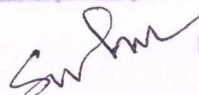
ADD ON COURSE  
Organized by:



Year: 2018 - 2019  
Department of Pharmacology,  
JKKMMRF'S AnnaiJkk - SampooraniAmmal  
College of Pharmacy, Komarapalayam.

**TITTLE: PHARMACOLOGICAL RESEARCH  
METHODS**

Date: 04.02.2019 to 14.02.2019

  
**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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<b>DATE</b>	<b>04.02.2019 to 14.02.2019</b>
<b>VENUE</b>	SEMINAR HALL

## STUDENTS ENROLLMENT LIST

S.NO	Register No	Students Name	Year
1.	561558033	PRAKASH.S	IV YR
2.	561558034	PRIYADHARANI.S	IV YR
3.	561558035	PRIYADHARSHINI.B	IV YR
4.	561558036	RAGUNATH.P.V	IV YR
5.	561558039	SAJEER MOHAMED.K	IV YR
6.	561558040	SAKTHI KUMARAN.D *	IV YR
7.	561558041	SANTHOSH.P	IV YR
8.	561558042	SANTHOSHKUMAR.P	IV YR
9.	561558044	SATHISH.G	IV YR
10.	561558045	SENTHAMIZH SELVAN.V	IV YR
11.	561558046	SHAKTHI.R *	IV YR
12.	561558047	SHARMILA.P *	IV YR
13.	561558048	SIVASAKTHI.V	IV YR
14.	561558049	SOUNDARAJ.M	IV YR
15.	561558050	SRIDHARAN.K *	IV YR
16.	561558051	STALIN.P	IV YR
17.	561558052	SUDHA.M	IV YR
18.	561558053	SUGANTHKUMAR.M	IV YR
19.	561558054	SUNDARAMOORTHY.S	IV YR
20.	561558055	TAMILSELVAN.P	IV YR
21.	561558056	THAMARAI KANI S	IV YR
22.	561558057	THENMOZHIL.S *	IV YR
23.	561558058	VARADHARAJU.S	IV YR
24.	561558059	VINOTH.G	IV YR
25.	561558060	YUVARAJ.A *	IV YR
26.	561658100	PASUPATHI S (LE)	IV YR
27.	561658101	YASOTHA S (LE)	IV YR
28.	261830701	MOHANAPRIYA K	SEM-I

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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29.	261830702	SINDHU E	SEM-I
30.	261830703	MOHAMED ELZAIN HASSAN RAHMTALLA	SEM-I
31.	261830704	ABINAYA M	SEM-I
32.	261830705	GAYATHIRI P	SEM-I
33.	261830706	JOBITHA GEORGE	SEM-I
34.	261830707	LAVANYA S	SEM-I
35.	261830708	SASIKUMAR V	SEM-I
36.	261830709	THANGAMANI G	SEM-I
37.	261830710	VIJAYA VARUN R	SEM-I
38.	261840551	ATHIRA SHAJI	SEM-I
39.	261840552	MOHAMMED RASHID M.P	SEM-I
40.	261840553	MUHAMMED SHAFI K	SEM-I
41.	261840554	NIZAR AHMED A	SEM-I
42.	261840555	ABDULLAH SIDIG MOHAMED AHMED	SEM-I
43.	261840556	BUNDE KEMUNTO LILIAN	SEM-I
44.	261840557	FATHALRAHMAN MUSTAFA AHMED MUSTAFA	SEM-I
45.	261840558	MAHER ABDALLA KHERLSID MOSLAH	SEM-I
46.	261840559	MOHAMMAD ALMOBARK BUSHRA ALTIEB ELBUSHRA	SEM-I
47.	261840560	ABDULRASHEED K	SEM-I
48.	261840561	INSATH PARVEEN S	SEM-I
49.	261840562	KIRUTHIGA S	SEM-I
50.	261840563	MOHAMMED FAWAZ V.P	SEM-I
51.	261840564	MUHAMMAD FAVAS P.P	SEM-I
52.	261840565	RIYAS RASHEED M	SEM-I
53.	261825701	GOPIKA KRISHNAN G R	SEM-I
54.	261825702	MEENAKSHI S	SEM-I
55.	261825703	NOUFAL ABDUL LATHEEF	SEM-I
56.	261825704	PRIYANKA M	SEM-I
57.	261825705	SARAVANAKUMAR S	SEM-I
58.	261825706	SAVIN SEBASTIAN	SEM-I
59.	261825707	SHYJI S	SEM-I
60.	261825708	TINO MATHEW	SEM-I
61.	261825709	GAYATHRI K	SEM-I
62.	261825710	GUHAANANTH N	SEM-I
63.	261825711	KIRUTHIGA S	SEM-I
64.	261825712	LOKESHVAR R	SEM-I
65.	261825713	MUHAMMED K J	SEM-I

*Senthil Kumar*

**Dr. N. SENTHILKUMAR,**  
PRINCIPAL

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1.	561558033	PRAKASH.S	IV YR	B.PHARM	/	/	/	/	/
2.	561558034	PRIYADHARANL.S	IV YR	B.PHARM	/	/	/	/	/
3.	561558035	PRIYADHARSHINI.B	IV YR	B.PHARM	/	/	/	/	/
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8.	561558042	SANTHOSHKUMAR.P	IV YR	B.PHARM	/	/	/	/	/
9.	561558044	SATHISH.G	IV YR	B.PHARM	/	/	/	/	/
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27.	561658101	YASOTHA S (LE)	IV YR	B.PHARM	/	/	/	/	/
28.	261830701	MOHANAPRIYA K	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
29.	261830702	SINDHU E	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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31.	261830704	ABINAYA M	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
32.	261830705	GAYATHIRI P	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
33.	261830706	JOBITHA GEORGE	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
34.	261830707	LAVANYA S	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
35.	261830708	SASIKUMAR V	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
36.	261830709	THANGAMANI G	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
37.	261830710	VIJAYA VARUN R	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)	/	/	/	/	/
38.	261840551	ATHIRA SHAJI	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
39.	261840552	MOHAMMED RASHID M.P	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
40.	261840553	MUHAMMED SHAFI K	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
41.	261840554	NIZAR AHMED A	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
42.	261840555	ABDULLAH SIDIG MOHAMED AHMED	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
43.	261840556	BUNDE KEMUNTO LILIAN	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
44.	261840557	FATHALRAHMAN MUSTAFA AHMED MUSTAFA	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
45.	261840558	MAHER ABDALLA KHERLSID MOSLAH	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
46.	261840559	MOHAMMAD ALMOBARK BUSHRA ALTIEB-ELBUSHRA	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
47.	261840560	ABDULRASHEED K	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
48.	261840561	INSATH PARVEEN S	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
49.	261840562	KIRUTHIGA S	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
50.	261840563	MOHAMMED FAWAZ V.P	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
51.	261840564	MUHAMMAD FAVAS P.P	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/
52.	261840565	RIYAS RASHEED M	SEM-I	M.PHARM (PHARMACY PRACTICE)	/	/	/	/	/

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NAMAKKAL DISTRICT, TAMILNADU.



53.	261825701	GOPIKA KRISHNAN G R	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
54.	261825702	MEENAKSHI S	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
55.	261825703	NOUFAL ABDUL LATHEEF	SEM-I	M.PHARM (PHARMACOLOGY)	A	A	A	A	A
56.	261825704	PRIYANKA M	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
57.	261825705	SARAVANAKUMAR S	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
58.	261825706	SAVIN SEBASTIAN	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
59.	261825707	SHYJI S	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
60.	261825708	TINO MATHEW	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
61.	261825709	GAYATHRI K	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
62.	261825710	GUHAANANTH N	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
63.	261825711	KIRUTHIGA S	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
64.	261825712	LOKESHVAR R	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/
65.	261825713	MUHAMMED K J	SEM-I	M.PHARM (PHARMACOLOGY)	/	/	/	/	/

*Senthil Kumar*  
(HOD)

*Senthil Kumar*  
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NAMAKKAL DISTRICT, TAMILNADU.





VALUE ADDED COURSE	PHARMACOLOGICAL RESEARCH METHODS
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	04.02.2019 to 14.02.2019
VENUE	SEMINAR HALL

### MULTIPLE CHOICE QUESTION

ANSWER ALL THE QUESTION

Date: 14.02.2019

Choose the correct answers:

Total Marks: 10×1= 20

1. First step of an investigation is A.
- A. collection of data.
  - B. presentation of data.
  - C. analysis of data.
  - D. explanation of data.

2. Diagrams are for A.
- A. the use of exports.
  - B. better quantitative picture.
  - C. better mental appeal
  - D. the use of imports.

3. Skewness is positive when mean is B.
- A. greater than mode.
  - B. less than mode.
  - C. equal to mode.
  - D. negative.

4. A grouped distribution can be represented by A.
- A. Frequency polygon.
  - B. Histogram.
  - C. Frequency curve.
  - D. Ogives.

  
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NAMAKKAL DISTRICT, TAMILNADU.



5. The regression lines helps to find the B
- average of x and y.
  - average of x only.
  - average of y only.
  - the median of x and y
6. In a positively skewed distribution mean > median is B.
- lesser than mode
  - equal to mode
  - greater than mode
  - none
7. The mode of the following series is D. 3,5,8,5,4,5,9,3.
- 3.
  - 5.
  - 4.
  - 0.
8. D is used to compare the variability of two or more than two series.
- mean.
  - Standard deviation.
  - Coefficient of variation.
  - Mean deviation
9. The spearman rank correlation coefficient is a C measure of rank correlation.
- parametric
  - non-parametric
  - linear
  - non-linear
10. The regression equation of x on y is expressed as C.
- $y=a+b$ .
  - $y=ab$ .
  - $y=a+bx$ .
  - $y = a/bx$ .
11. When the sample size n is less than 30 it is called C.
- small sample test.
  - large sample test.
  - ANOVA.
  - none of these.
12. Print paper for the research report should be only on B paper.
- Mat.
  - Low quality glossy.

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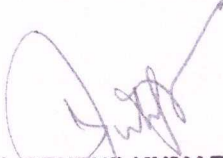
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.





- C. High-quality glossy.  
D. Filter.
13. In references if the author is a woman it is usual to spell her C.  
A. Name  
B. First name  
C. Surname  
D. Name with initial
14. The hypothesis is true but our test rejects it. It is known as D.  
A. Type I error.  
B. Type II error.  
C. wrong decision.  
D. None of the above.
15. The word statistics seems to have been derived from the latin word C.  
A. statistik  
B. status  
C. statista  
D. statistil
16. Statistics is most commonly used in C.  
A. Maths.  
B. Science.  
C. Economics  
D. Sociology.
17. Statistics is the B of estimates and probabilities.  
A. Science.  
B. Economics.  
C. Sociology.  
D. Social science.
18. B curve should begin and end at the baseline.  
A. ogives.  
B. frequency.  
C. histogram.  
D. none of the above.
19. Variance is the square of B.  
A. range.  
B. quartile deviation.  
C. mean deviation.  
D. standard deviation

  
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**NAMAKKAL DISTRICT, TAMILNADU.**





20. Decrease in one variable influences the decrease in other variable is B.

- A. multiple correlations.
- B. simple correlation.
- C. negative correlation.
- D. positive correlation.

*Senthil*  
(HOD)

*Senthil*

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*Senthil*

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

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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](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
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VALUE ADDED COURSE	PHARMACOLOGICAL RESEARCH METHODS
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	04.02.2019 to 14.02.2019
VENUE	SEMINAR HALL

## MULTIPLE CHOICE QUESTION

ANSWER ALL THE QUESTION

Date: 14.02.2019

Choose the correct answers:

Total Marks: 10×1= 20

1. First step of an investigation is \_\_\_\_\_.  
A. collection of data.  
B. presentation of data.  
C. analysis of data.  
D. explanation of data.
2. Diagrams are for \_\_\_\_\_.  
A. the use of exports.  
B. better quantitative picture.  
C. better mental appeal  
D. the use of imports.
3. Skewness is positive when mean is \_\_\_\_\_.  
A. greater than mode.  
B. less than mode.  
C. equal to mode.  
D. negative.
4. A grouped distribution can be represented by \_\_\_\_\_.  
A. Frequency polygon.  
B. Histogram.

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- C. Frequency curve.  
D. Ogives.
5. The regression lines helps to find the \_\_\_\_\_  
A. average of x and y.  
B. **average of x only.**  
C. average of y only.  
D. the median of x and y
6. In a positively skewed distribution  $\text{mean} > \text{median}$  is \_\_\_\_\_.  
A. lesser than mode  
B. **equal to mode**  
C. greater than mode  
D. none
7. The mode of the following series is \_\_\_\_\_. 3,5,8,5,4,5,9,3.  
A. 3.  
B. 5.  
C. 4.  
D. **0.**
8. \_\_\_\_\_ is used to compare the variability of two or more than two series.  
A. mean.  
B. Standard deviation.  
C. Coefficient of variation.  
D. **Mean deviation**
9. The spearman rank correlation coefficient is a \_\_\_\_\_ measure of rank correlation.  
A. parametric  
B. non-parametric  
C. **linear**  
D. non-linear
10. The regression equation of x on y is expressed as \_\_\_\_\_.  
A.  $y=a+b$ .  
B.  $y=ab$ .  
C.  **$y=a+bx$ .**  
D.  $y = a/bx$ .
11. When the sample size n is less than 30 it is called \_\_\_\_\_.  
A. small sample test.  
B. large sample test.  
C. **ANOVA.**  
D. none of these.

  
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**NAMAKKAL DISTRICT, TAMILNADU.**



12. Print paper for the research report should be only on \_\_\_\_ paper.  
A. Mat.  
B. Low quality glossy.  
**C. High-quality glossy.**  
D. Filter.
13. In references if the author is a woman it is usual to spell her \_\_\_\_.  
A. Name  
**B. First name**  
C. Surname  
D. Name with initial
14. The hypothesis is true but our test rejects it. It is known as \_\_\_\_\_.  
A. Type I error.  
B. Type II error.  
C. wrong decision.  
**D. None of the above.**
15. The word statistics seems to have been derived from the latin word \_\_\_\_\_.  
A. statistik  
B. status  
**C. statista**  
D. statistil
16. Statistics is most commonly used in \_\_\_\_\_.  
A. Maths.  
B. Science.  
**C. Economics**  
D. Sociology.
17. Statistics is the \_\_\_\_\_ of estimates and probabilities.  
A. Science.  
**B. Economics.**  
C. Sociology.  
D. Social science.
18. \_\_\_\_\_ curve should begin and end at the baseline.  
A. ogives.  
**B. frequency.**  
C. histogram.  
D. none of the above.
19. Variance is the square of \_\_\_\_\_.  
A. range.  
**B. quartile deviation.**

  
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- C. mean deviation.
- D. standard deviation

20. Decrease in one variable influences the decrease in other variable is \_\_\_\_\_.
- A. multiple correlations.
  - B. simple correlation.**
  - C. negative correlation.
  - D. positive correlation.



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

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

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VALUE ADDED COURSE	PHARMACOLOGICAL RESEARCH METHODS
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	04.02.2019 to 14.02.2019
VENUE	SEMINAR HALL

## STUDENT MARK LIST

S.NO	Register No	Students Name	Year	Mark obtained	Mark %
1.	561558033	PRAKASH.S	IV YR	16	80
2.	561558034	PRIYADHARAN.LS	IV YR	18	90
3.	561558035	PRIYADHARSHINI.B	IV YR	18	90
4.	561558036	RAGUNATH.P.V	IV YR	18	90
5.	561558039	SAJEER MOHAMED.K	IV YR	18	90
6.	561558040	SAKTHI KUMARAN.D *	IV YR	20	100
7.	561558041	SANTHOSH.P	IV YR	20	100
8.	561558042	SANTHOSHKUMAR.P	IV YR	18	90
9.	561558044	SATHISH.G	IV YR	19	95
10.	561558045	SENTHAMIZH SELVAN.V	IV YR	19	95
11.	561558046	SHAKTHI.R *	IV YR	17	85
12.	561558047	SHARMILA.P *	IV YR	16	80
13.	561558048	SIVASAKTHI.V	IV YR	18	90
14.	561558049	SOUNDARAJ.M	IV YR	19	95
15.	561558050	SRIDHARAN.K *	IV YR	0	0
16.	561558051	STALIN.P	IV YR	20	100
17.	561558052	SUDHA.M	IV YR	20	100
18.	561558053	SUGANTHKUMAR.M	IV YR	18	90
19.	561558054	SUNDARAMOORTHY.S	IV YR	19	95
20.	561558055	TAMILSELVAN.P	IV YR	18	90
21.	561558056	THAMARAI KANI S	IV YR	16	80
22.	561558057	THENMOZHI.S *	IV YR	19	95
23.	561558058	VARADHARAJU.S	IV YR	18	90
24.	561558059	VINOTH.G	IV YR	19	95
25.	561558060	YUVARAJA *	IV YR	18	90
26.	561658100	PASUPATHI S (LE)	IV YR	20	100

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NAMAKKAL DISTRICT, TAMILNADU.





27.	561658101	YASOTHA S (LE)	IV YR	19	95
28.	261830701	MOHANAPRIYA K	SEM-I	18	90
29.	261830702	SINDHU E	SEM-I	19	95
30.	261830703	MOHAMED ELZAIN HASSAN RAHMTALLA	SEM-I	18	90
31.	261830704	ABINAYA M	SEM-I	16	80
32.	261830705	GAYATHIRI P	SEM-I	19	95
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51.	261840564	MUHAMMAD FAVAS P.P	SEM-I	16	80
52.	261840565	RIYAS RASHEED M	SEM-I	19	95
53.	261825701	GOPIKA KRISHNAN G R	SEM-I	18	90
54.	261825702	MEENAKSHI S	SEM-I	19	95
55.	261825703	NOUFAL ABDUL LATHEEF	SEM-I	A	A
56.	261825704	PRIYANKA M	SEM-I	20	100
57.	261825705	SARAVANAKUMAR S	SEM-I	20	100
58.	261825706	SAVIN SEBASTIAN	SEM-I	18	90
59.	261825707	SHYJI S	SEM-I	19	95
60.	261825708	TINO MATHEW	SEM-I	18	90
61.	261825709	GAYATHRI K	SEM-I	19	95
62.	261825710	GUHAANANTH N	SEM-I	16	80
63.	261825711	KIRUTHIGA S	SEM-I	18	90

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64.	261825712	LOKESHVAR R	SEM-I	16	80
65.	261825713	MUHAMMED K J	SEM-I	16	80

*Senthil*

*Senthil*  
**Dr. N. SENTHILKUMAR,**  
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# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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VALUE ADDED COURSE	PHARMACOLOGICAL RESEARCH METHODS
DEPARTMENT	PHARMACOLOGY
ACEDAMIC YEAR	2018-2019
DATE	04.02.2019 to 14.02.2019
VENUE	SEMINAR HALL

## VALUE ADDED COURSE

## FEEDBACK FORM

STUDENTNAME: THANGAMAMI G  
YEAR/ COURSE: M. Pharm

DATE:


NAME OF THE VALUE ADDED COURSE: PHARMACOLOGICAL RESEARCH METHODS  
COURSECODE: DURATION: 2 years

EVALUATE HONESTLY:

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

### Student Participation

- 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) 15UP
- What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%

  
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NAMAKKAL DISTRICT, TAMILNADU.

THANGAMAMI G  
SIGNATURE



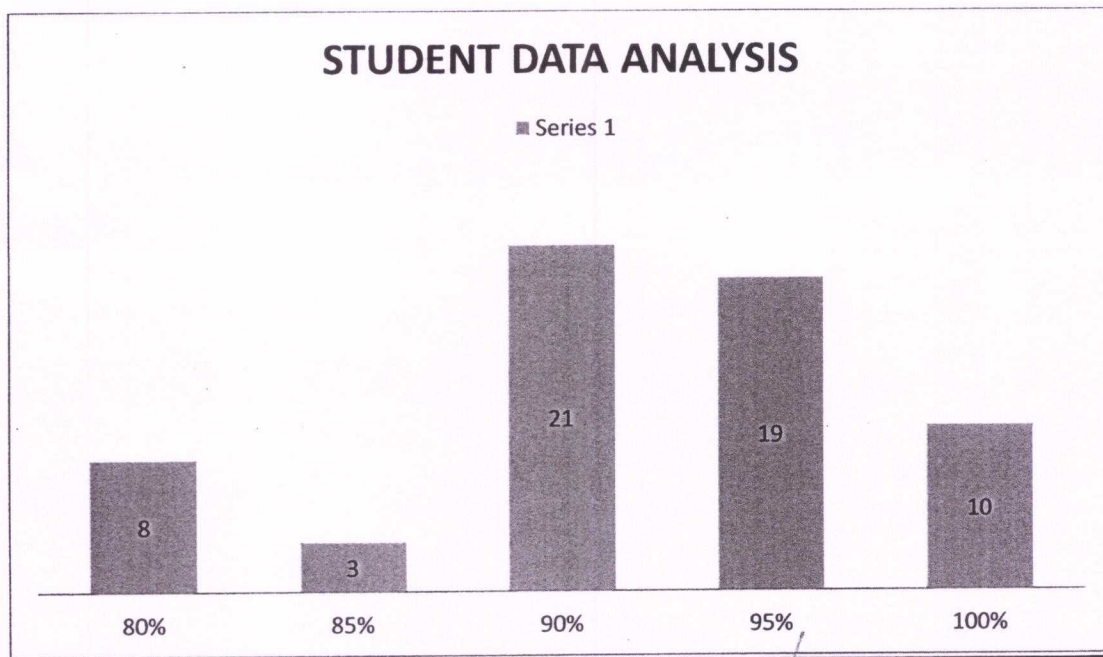


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## STUDENT DATA ANALYSIS



Dr. N. SENTHILKUMAR,  
PRINCIPAL,

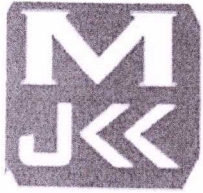
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Dr. N.SENTHILKUMAR,  
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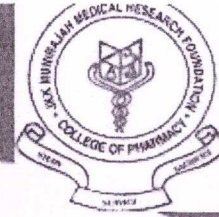
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Department of Pharmacology,



*Certificate of Participant*  
**YASOTHA. S**

Has appreciated for his / her participation in the VALUE ADDED COURSE on  
PHARMACOLOGICAL RESEARCH METHODS organized by the Department of  
Pharmacology on (04.02.2019 to 14.02.2019).

**ORGANIZING  
SECRETARY**

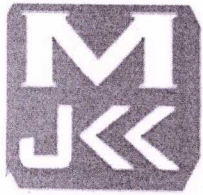


**CONVENER**

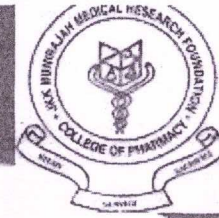


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Department of Pharmacology,



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**LAVANYA.S**

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*[Signature]*

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SECRETARY**



*[Signature]*

**CONVENER**



*[Signature]*

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