

**2020 -2021**

Short term Course on

**“Fundamentals of Applied  
Entomology”**

From

The Head of the Department  
Department of Zoology  
MES KeeVeeYam College, Valanchery

To

The Principal  
MES KeeVeeYam College, Valanchery

Sir,

Sub: Request for the Approval of Board of Studies for the short term course

The following academicians may be included in the Board of Studies for the short term course on "Fundamentals of Applied Entomology" to be conducted by the department.

1. Dr. Shereena K M, Assistant Professor, MES Ponnani College.
2. Dr .K.P Muhammed Shareef , Assistant Professor,PSMO College  
Tirurangadi.

Kindly do the needful to constitute the Board of Studies with these members.

Thanking you.

Yours faithfully,



Place: Valanchery

Date: 11 /12/2020

Members of Board of Studies for the Short term Course offered by the Department of Zoology, MES KeeVeeYam College, Valanchery.

1. Dr. Shereena K M, Assistant Professor, MES Ponnani College
2. Dr .K.P Muhammed Shareef , Assistant Professor,PSMO College  
Tirurangadi

## MINUTES OF BOARD OF STUDIES MEETING

Venue: Department of Zoology

Date: 14/01/2020

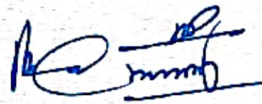
Agenda: Approval of syllabus of the short term course

Decisions:-

1. Discussions were done on the draft syllabus
2. Suggestions were made to conduct hands on training Programme by taxonomic experts.
3. A one day Field trip has to be included.
4. Approval can be given to syllabus

Members Present:

1. Dr. Shereena K M, Assistant Professor, MES Ponnani College
2. Dr .K.P Mohammed Shareef , Assistant Professor,PSMO College  
Tirurangadi







# MES KEVEEYAM COLLEGE VALANCHERY

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Reaccredited with 'A' Grade by NAAC (3.28 Score)  
ISO 9001:2015 certified institution

## *Proceedings of the Principal, MES Keveeyam College Valanchery*

(Present: Dr. C Rajesh )

- Ref:** (1) Request from the Head of the Department of Zoology dt:8/12/2020  
(2) Minutes of Board of Studies meeting for approval of the syllabus dt:  
14/01/2020.

### ORDER

As per reference cited (1), request was received from the HOD, Department of Zoology to start a short term course on "Fundamentals of Applied Entomology". In the same letter, the head of the department has recommended a panel of academicians to be included in the Board of Studies.

The department of Zoology is hereby given sanction to conduct a short term course on "Fundamentals of Applied Entomology", and education to the UG students of the college.

The board of studies for the above course is constituted with the following members

1. Dr. K.P Muhammed Shareef ,Assistant Professor, PSMO College, Tirurangadi
2. Dr. Shereena K M, Assistant Professor, MES Ponnani College

Order is issued accordingly.

Principal

(Present: Dr. C Rajesh)  
**Dr. C. RAJESH**  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
M.E.S KEVEEYAM COLLEGE  
VALANCHERY, PIN 676 552

### **Copy to**

1. HOD, Department of Zoology
2. File

## SYLLABUS

### Module 1: MORPHOLOGY AND TAXONOMY (12Hrs)

#### Chapter 1: Insect classification

1. Introduction to classification of insects. Mention Apterygota, Exopterygota, Endopterygota, Hemimetaboly and Holometaboly.
2. Apterygota: Diagnostic characteristics of the following Orders: Collembola, Protura, Diplura, Archeognata (Microcoryphia) and Thyasanura.
3. Exopterygota: Diagnostic characteristics of following Orders and families mentioned under each order  
  
A. Ephemeroptera (May flies); B. Odonata-mention dragonflies and damselflies C. Isoptera (Termites) D. Phasmida (Leaf Insects) E. Blattaria- Mention economic importance and important species. F. Mantodea & Mantophasmatodea. G. Orthoptera H. Thysanoptera. I. Hemiptera: Medical importance of Reduviidae; Polymorphism in Aphids; Stridulation in Cicada. G. Psocoptera. K. Phthiraptera- Mention *Pediculus humanus* and its parasitic adaptations. L. Dermaptera- Sexual dimorphism and parental care. M. Plecoptera. N. Embioptera. O. Zoraptera.
4. Endopterygota: Diagnostic characteristics of following Orders and families mentioned under each order  
  
A. Coleoptera (Beetles) ; Mention cantharidin and bioluminescence. B. Lepidoptera (Butterflies and Moths); C. Hymenoptera (Bees & Wasps); D. Diptera (Mosquitoes) E. Siphonoptera: Mention plague. F. Strepsiptera . Mention stylopization. G. Neuroptera. Mention Antlion. H. Mecoptera . I. Megaloptera. J. Raphidioptera. K. Trichoptera

## Chaper 2 : External morphology

1. Segmentation and division of the body
2. General morphology of the Head
3. General morphology of the Thorax
4. General morphology of the Abdomen

## **Module 2: ECOLOGY & BEHAVIOUR (3 HRS)**

1. Mention Aquatic insects
2. Mention Gall forming insects:
3. Mention Leaf mining insects
4. Mention Social insects – social organization

## **MODULE 3: APPLIED ENTOMOLOGY (5 HRS)**

1. Beneficial insects: Honeybees and honey production; Honeybee venom; Parasitic hymenoptera and biological control  
Lac insects and lac production.
2. Parasitic Insects and parasitoid, Adaptations of parasitic and predatory insects.
3. Dipterans and forensic entomology
4. Dipterans and bio-surgery.
3. Drosophila as experimental model.
4. Insect vectors of human diseases ;Mention plague & Mention stylopization



## **MODULE 4: INSECT PESTS&INTEGRATED PEST MANAGEMENT (5HR)**

### **Chapter 1: Insect Pests**

1. Classification of insect pests (Regular pests, Occasional pests, Seasonal pests, persistent pests, sporadic pests, major pests, minor pests, potential pests, key pests)
2. Insect pests of crops (Paddy, Coconut, Sugar cane & Pulses)
3. Common vegetables Brinjal, Tomato & Gourd
4. Fruits (Mango, Cashew & Banana)

### **Chapter 2: Integrated Pest Management**

1. Definition, IPM in Agroecosystem
2. Biocontrol & Chemical control over Insect Pests

**TIME TABLE FOR THE SHORT TREM COURSE (1/2/2021 to <sup>5</sup>15/3/2021)**

DATE	DAY	NAME OF FACULTY ENGAGING THE CLASS	TIME
1/2/21	Monday	KSK	3.30-4.30 PM
2/2/21	Tuesday	VJ	3.30-4.30 PM
3/2/21	Wednesday	SUV	3.30-4.30 PM
4/2/21	Thursday	RM	3.30-4.30 PM
5/2/21	Friday	NSV	3.30-4.30 PM
8/2/21	Monday	JK	3.30-4.30 PM
9/2/21	Tuesday	VJ	3.30-4.30 PM
10/2/21	Wednesday	SUV	3.30-4.30 PM
11/2/21	Thursday	VJ	3.30-4.30 PM
12/2/21	Friday	JK	3.30-4.30 PM
15/2/21	Monday	KSK	3.30-4.30 PM
16/2/21	Tuesday	RM	3.30-4.30 PM
17/2/21	Wednesday	JK	3.30-4.30 PM
18/2/21	Wednesday	JK	3.30-4.30 PM
19/2/21	Thursday	KSK	3.30-4.30 PM
22/2/21	Monday	SUV	3.30-4.30 PM
23/2/21	Tuesday	RM	3.30-4.30 PM
24/2/21	Wednesday	JK	3.30-4.30 PM
25/2/21	Wednesday	VJ	3.30-4.30 PM
26/2/21	Thursday	NSV	3.30-4.30

1/3/21	Monday	SUV	3.30-4.30 PM
2/3/21	Tuesday	KSK	3.30-4.30 PM
3/3/21	Wednesday	NSV	3.30-4.30 PM
4/3/21	Thursday	JK	3.30-4.30 PM
5/3/21	Friday	RM	3.30-4.30 PM

**KSK:Krishna Prabha (4Hr),**

**JK Jisha Krishnan E.K (5Hr)**

**SUV:Suvarna (4Hr)**

**RM:reshmi (4Hr)**

**NSV: Nasla V (4Hr)**

**VJ:Vijithra c(4Hr)**



SI NO	Roll No	Name of Student	Attendance(2020-2021)																									
			February												March													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	12534	MOHAMMED ABDU RAHOOF E																										
2	12410	MOHAMMED RAUF T																										
3	12506	MUHAMMED FAVAS A P																										
4	12539	BASILA P																										
5	12575	FARSHANA SHERIN K V																										
6	12548	FATHIMA FASNA P K																										
7	12451	FATHIMATH SUHARA K																										
8	12556	HALEefa O A																										
9	12523	MAJIDA NARGEES C																										
10	12524	RIHA PARVIN P																										
11	12370	SAHLA SAYYIDA.KT																										
12	12376	SAJLA.P																										
13	12280	SALWA.PT																										
14	12452	SHAHANA SHERIN																										
15	12448	SHIBILA KABEER																										
16	12434	SHINU SHIMLI P																										
17	12261	AJUL.P																										
18	12375	IJAZ ASLAM J																										
19	12562	SHIBINLAL K																										
20	12581	AMILA SUMAN T E																										
21	12337	DEVANANDHAAS																										
22	12580	FARSANA V																										
23	12527	FATHIMA SHAHASADI K																										
24	12468	LINSHIDA																										
25	12424	MEENAKSHI.AK																										
26	12326	VISMAYA.KP																										





ONLINE CERTIFICATE COURSE : STUDENT LIST (2020-2021)

Name of the Student	Class/Programme of Study	Name of the College
Megna T.M	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Reshma P.K	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Mufeeda	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
RUKSANA A	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aiswarya	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Mehanaz	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Sunisha K	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Shyamili.V.P	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
ATHIKA SHAREEN .P	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
ASWATHY K R	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
SHEEJA R	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aswin Bhaskar	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
sanjana.c	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
NIDHA HASHMI K	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
SHAMSHEERA FAHEEM.NP	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Sneha. T. P	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Rihla C P	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Pavithra sreenivsan	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aswathy K R	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Jasli - CH	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Reshma PK	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Rihla C P	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aswathy K.R	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Ruksana A	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Shahalafarsana	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Sheeja R	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Shamsheera Faheem.NP	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
NIDHA HASHMI K	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
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Sneha. T. P	M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY

Jasli C.H		M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Rihla C P		M. Sc. Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Shamnas MK		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Sindhu PK		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Khadeeja Shirin TP		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Fathimath Shahabana.E		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Jumailath		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Hasna P		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Rahmathunisa VP		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Ajna M		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Muneefa. K		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Jaseela parveen.A		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Prinsha Prasad KP		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Haritha K		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Smera S		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Rufeedha P P		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aparna T P		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
fathima nida A		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
SRUTHI. M		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Muhsnia		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Mohammed Abdu Rahoof E		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aiswarya c		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Shahana shirin.c		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Ajul p		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Vinayapriya MP		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Athul mp		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Nishana sherin.m		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Aseetha furshath		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Shahasadi K.		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Mohammad Rauf T		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Geethu K		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Linshida		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Nashva		Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY



Sindhu P.K	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
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Bushra kuruniyan	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Nasrin V.P.	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
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Sadiya thasni	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Sahla Sayyida KT	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Mubashira Beegam. K	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Archana balan.k	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Asna Fathima	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Farsana V	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Vismaya k.p.	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Meenakshi. A. K	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Linshida	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Mohammad Rahees	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Salwa P.T	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Fasna P.K	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Shalu kp	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Majida Vargheese	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
Sajja. P	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
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Shibila kabeer	Bsc Zoology	MES KEVEEYEM COLLEGE VALANCHERY
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Shahina kalody	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Mohammad Hasim M	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Arjeli Krishnan .E	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Ameena suman E	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Suhaila.k	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Syama T	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Soorya H	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Keerthana C K	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Amrutha P	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
aiswarya mv	MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY

Aswathi CP		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Vidya.E.P		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Haritha T		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Fathima munnath mp		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Saleena V.P		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Marjan P		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Aparna K.R		MSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Vyshna kp		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Govind Das		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Vyshna kp		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Hiba		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Sreelakshmi P		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Nafila KP		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Fathimath shana		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Safwana		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Mohammed noushik		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
fousiyathul usna p		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Hannath. MV		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Sneha V.P		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Hasna thasniya k		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Hasnath		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Akshaya.P		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Ajmala ruksana		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Farhana Sherin PK		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Shama shareen E		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Shabeeba thesni. S		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Mubeena Thanseeha		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Rifna Fathima		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Hisana Thesni		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Thasni M		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Devika		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Hridhik Vasan		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Risla Ak		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY



Megha MK		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Megha MK		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Alseenath.A		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Thasleema.K.T		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Marjana.A		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Meghana VT		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Marjana.A		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Mohammad Hunais		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Mohammad Hasim		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Shakkira sherin sp		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Farshida kp		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Fathimath suhara pp		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Sree Lakshmi Narayana K P		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Nikhitha C S		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Sandra K K		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Cifla		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Safa Shafi P		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Anu Raseel.M		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Bijila balan CT		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Suhaila Nasrin		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Sandhra V		BSc Polymer Chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Vyshna K.P		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Najila.p		BSc Polymer chemistry	MES KEVEEYEM COLLEGE VALANCHERY
Muhammad Adam		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
Fathima k.k		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
Hasanath.k		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
Shabna.EK		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
FathimasajilaA		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
Fathima Hafeefa		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
Ramseena saleem		BSc Psychology	MES KEVEEYEM COLLEGE VALANCHERY
Ameera Muthafa K V		MSc Physics	MES KEVEEYEM COLLEGE VALANCHERY
Karthika P		MSc Physics	MES KEVEEYEM COLLEGE VALANCHERY
Sufaira pp		M.Com	MES KEVEEYEM COLLEGE VALANCHERY

shahna mb		M.Com	MES KEVEEYEM COLLEGE VALANCHERY
Farsana sherin k p		M.Com	MES KEVEEYEM COLLEGE VALANCHERY
Fathima suhaila v.k		M.Com	MES KEVEEYEM COLLEGE VALANCHERY
Nshutiniza Alliance		B.com Finance	MES KEVEEYEM COLLEGE VALANCHERY
Shabas shammed tp		B.com Finance	MES KEVEEYEM COLLEGE VALANCHERY
Musfira thasneem Ak		B Com with CA	MES KEVEEYEM COLLEGE VALANCHERY
Amritha		B Com with CA	MES KEVEEYEM COLLEGE VALANCHERY
Jabinnoor		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Ruhin beegum kp		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Nazrin kp		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Muhammed Abdul nafi p		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Saheera Km		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Sibila sherin.v		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Afrooz shahana vp		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Muhammad Shajin		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Mohamed shahin		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Fahadga Fasli		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Shenil muhsin.p		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Afrooz sahana vp		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
FAHMIDA.A		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Khadeejathu shifa		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Anagha M		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Ameena Murshida		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Shamnad ck		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Raheema mol p		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Sufiya M.V		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Haneena nasreen .k		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Asma mv		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Raheema mol p		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Rahila cp		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Raheema mol p		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Sajna ap		B Voc Optometry	MES KEVEEYEM COLLEGE VALANCHERY
Muhammed saheed		B Voc Retail Management	MES KEVEEYEM COLLEGE VALANCHERY



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Total Registered Candidates  
at MESKVY College Valanchery => 260

**"Let's fight COVID-19"  
Online Certificate Course  
Awareness and  
Management of  
Pandemic COVID-19**

**Conducted by  
Internal Quality Assurance Cell &  
Department of Zoology**

Marks scored : 70%  
Certificate ID: KQ8ZGO-CE0000041

**MES Keveeyam College, Valanchery**



# Certificate of Completion

This is to certify that

**SAFA SHAFI P**

Mes Keveeyam college Valancheri

has successfully completed the one week online certificate course "*Awareness and Management of Pandemic COVID 19*" conducted by Internal Quality Assurance Cell and Department of Zoology during May 2020.

**Principal**  
Capt. (Dr) Abdul Hameed

**Vice-principal & IQAC  
Coordinator**  
Dr. C Rajesh

**Head, Department of  
Zoology**  
Mrs. Krishna prabha.K.S

**Course coordinator**  
Dr. Jisha Krishnan

Date of issue : 17-5-2020



## **“Lets fight COVID-19”**

Corona virus Disease (COVID-19) is an infectious disease caused by Corona virus. Its explosion started in China and known to be extended almost 180 countries including India. Corona virus has killed around 1,93,825 people all around the world along with 28,10325 infected people. With this virus, most of the people feel sick for almost 1 to 14 days before showing symptoms. With the rising number of positive cases of COVID-19 in India, it is essential for the proper preparedness to face the threat posed over this pandemic situation. The Post graduate department of Zoology in association with IQAC of MES Keveeyam College is organizing a one week online certificate programme for all UG and PG college students to empower the right information and to render an awareness towards managing and minimizing the impact of COVID-19 outbreak.

**The course-“Awareness and Management of Pandemic  
COVID-19” is open for all UG & PG students**

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## **The topics to be covered**

- Emergence and identification of COVID-19
- Pathology of COVID-19
- Mode of transmission and social spread
- Overview of Public health response
- Social impact of COVID-19
- Information response to COVID-19

### **Things to Know**

- This one week course is absolutely free of cost and can be accessible for all UG & PG students of Colleges who shows an interest for learning.
- The course will be conducted through Google classroom platform and has no fixed time for accessing.
- The course has 6 modules consisting of 6 audios, 6 PDF files, an online quiz and a file associated with the assessment of the progress of the participant.
- The course content also provided with information for the treatment of COVID-19, prevention of Corona virus spreading and its ongoing clinical management.
- One text material will be uploaded every day and each student has to do an assignment based on it.
- "A record of Achievement (e-certificate) will be issued after completion of the course."

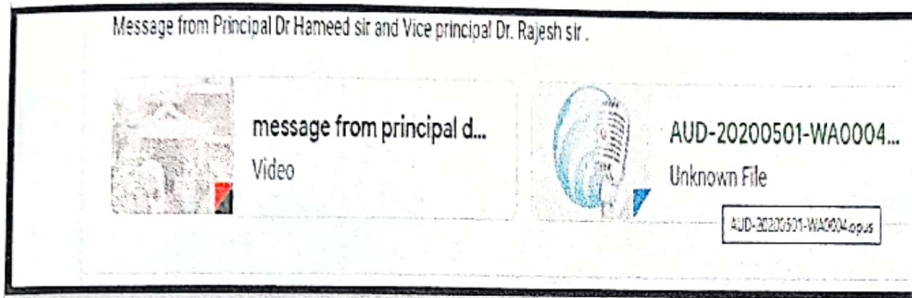


### Report of the Online certificate course "Awareness and Management of Pandemic COVID -19"

The deadly and infectious disease Corona virus also known as Covid-19 is paying close attention to the outbreak of novel Corona virus, following its emergence in December 2019 in Wuhan, China. With the outbreak of novel corona virus declared a pandemic by the World Health Organisation, people worldwide are working to address it. As this tragedy has deeply affected the global economy, it also shaken up the educator sector making many schools and colleges remain closed temporarily. Various schools, colleges and Universities have discontinued in-person teaching also. As the social distancing is making negative effects on the learning opportunities. Educational units are struggling to find options to deal with this challenging situation. As there is an urgent need to protect our students, staffs, communities and societies as a whole it is essential for proper preparedness and awareness immediately to the Academic institutions. Hence The Post graduate Department of Zoology in association with IQAC of MES Keveeyam College has organized a one week online certificate Programme "*Awareness and Management of Pandemic Covid-19*" for UG as well as PG students of different colleges and to public to empower with right information and to render an awareness for managing and minimizing the impact of COVID -19 outbreak. Dr, Jisha Krishnan E K. Assistant Professor of the department was entrusted to co-ordinate the whole course.

The PG department of Zoology in association with IQAC has completed this online certificate course in 3 batches with a total of 200 participants. The participants included students from various colleges, teachers and other staffs from various disciplines .The course was started on May 1<sup>st</sup> 2020 at 11 AM with a first batch of 100 selected students. The Honorable Principal, Capt. Dr C. Abdul

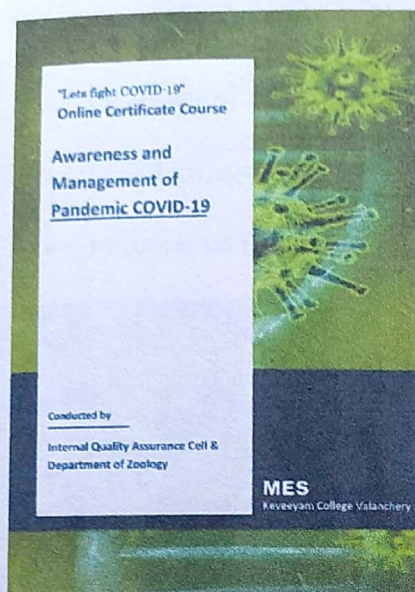
Hameed has inaugurated the Programme and the Vice Principal Dr C.Rajesh has made the felicitation. The Head of the department, Prof K.S Krishna Prabha has welcomed all the participants for the Programme.



Message from the Principal, Capt. Dr C Abdul Hameed

COVID -19 explosions started in China and known to be extended almost 180 countries including India. It has killed 33,885,646 people all around the world along with 1,013,464 infected people. With this virus, most of the people feel sick for almost 1 to 14 days before showing symptoms. India has faced around 97,761 death cases along with 5,206,044 reported cases. We have designed the course as follows





### "Lets fight COVID-19"

Corona virus Disease (COVID-19) is an infectious disease caused by Corona virus. Its explosion started in China and known to be extended almost 180 countries including India. Corona virus has killed around 1,93,825 people all around the world along with 28,10325 infected people. With this virus, most of the people feel sick for almost 1 to 14 days before showing symptoms. With the rising number of positive cases of COVID-19 in India, it is essential for the proper preparedness to face the threat posed over this pandemic situation. The Post graduate department of Zoology in association with IQAC of MES Keveeyam College is organizing a one week online certificate programme for all UG and PG college students to empower the right information and to render an awareness towards managing and minimizing the impact of COVID-19 outbreak.

**The course-"Awareness and Management of Pandemic COVID-19" is open for all UG & PG students**

#### The topics to be covered

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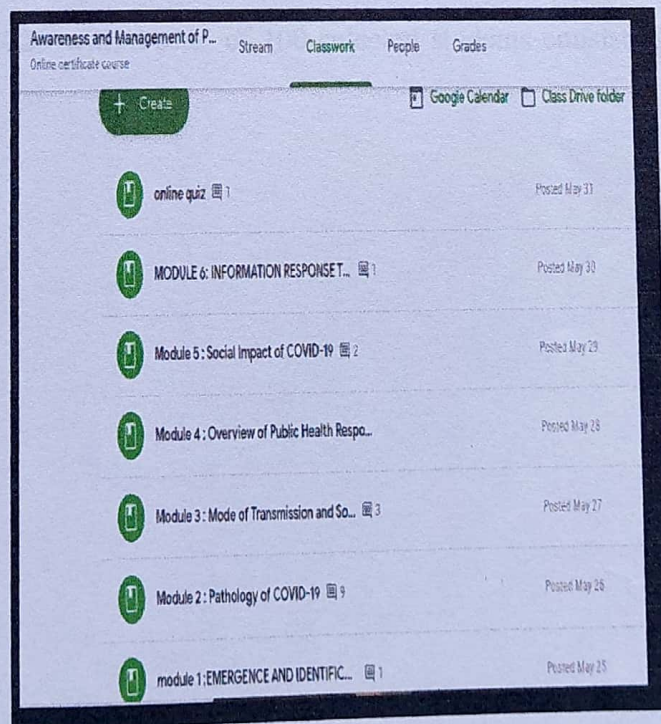
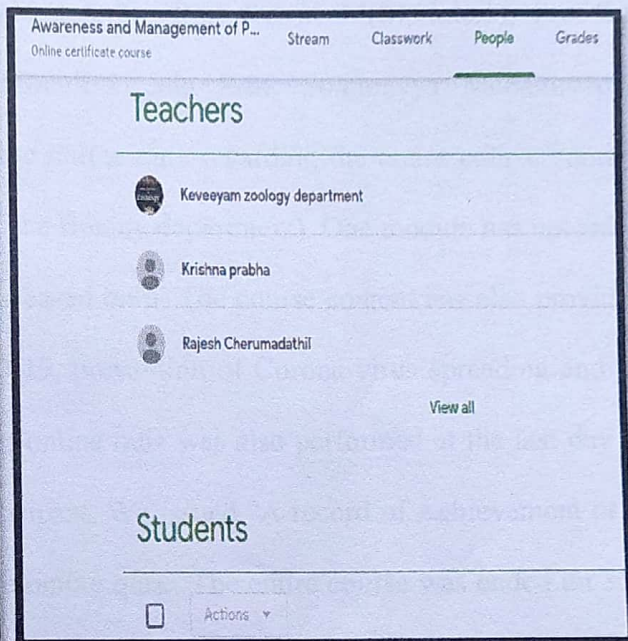
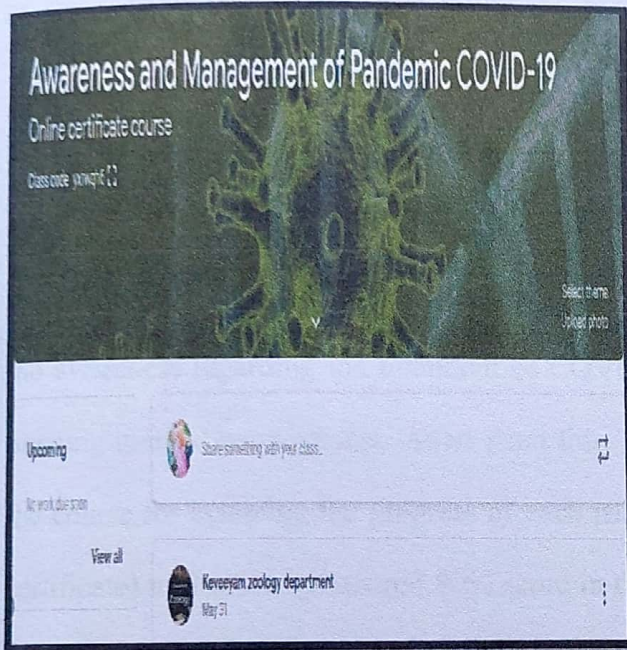
### About the Course

The course has conducted through Google classroom platform and no fixed time has been assigned for accessing. The syllabus was framed in 6 modules consisting of 6 tutorial videos along with 6 PDF files. The course content framed in 6 modules as follows

- Emergence and identification of COVID-19
- Pathology of COVID-19



- Mode of transmission and social spread
- Overview of Public health response
- Social impact of COVID-19
- Information response to COVID-19





## Over view of the Google class room for the online Certificate Course

The 6 different modules encompassing the details of COVID-19 pandemic was prepared by the Faculties in the PG department of Zoology, MES KVM College Valanchery department viz. Dr Ruksana K(Module:1), Dr Jisha Krishnan E.K(Module:2), Prof. Resmi M(Module:3), Prof.K.S Krishna Prabha(Module:4), Prof Nasla N V(Module:5) and Prof. Summayya Mohammadali (Module:6). All the technical assistance as well the online quiz regarding the entire course content was handled by Prof.Shehabas Chekkath (Head of the Botany department). One module has uploaded in everyday and each student has assigned a work based on it. The course content has also provided the awareness regarding the treatment of COVID-19, prevention of Corona virus spreading and its ongoing clinical management. Apart from this, an online quiz was also performed at the last day of the course for assessing the progress of each participant. We issued "A record of Achievement or e-certificate) to those who secured 80% score in the online quiz.. The entire course was ended on 31st May 2020 with the successful completion of 2 batches. The second and third batch respectively started from 10<sup>th</sup> & 25<sup>th</sup> May 2020 with a total of 100 selected students consisting 50 students in each batch.



## Overview of the Course content

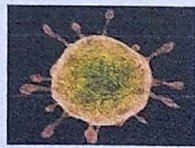
### MODULE-1 EMERGENCE AND IDENTIFICATION OF COVID-19

#### INTRODUCTION

- In December 2019, cluster of pneumonia cases were reported at China posing a great threat to global public health. Corona Virus Disease-2019 (COVID-19) was first identified in Wuhan City, Hubei Province, China, on December 12th, 2019. It was an emergence of new virus and it is new strain that has not been previously identified in humans. The primary cluster of patients was found to be connected with the Huanan South China Seafood Market in Wuhan.



- Corona viruses belong to the family *Coronaviridae* (subfamily *Coronavirinae*), the members of which infect a broad range of hosts, producing symptoms and diseases ranging from a common cold to severe and ultimately fatal illnesses such as SARS, MERS.
- Initially it was named as Novel Corona virus (nCoV) By WHO



### MODULE III: MODE OF TRANSMISSION AND SOCIAL SPREAD

#### MODES OF TRANSMISSION

- As the global outbreak of COVID-19 is approaching at the end of 6<sup>th</sup> month, still there exists a widespread confusion among public for their transmission.
- This disease is characterized by fever, cough, fatigue, shortness of breath, pneumonia at the initial stages and later by other severe respiratory cases like acute respiratory distress (ARD) and Severe Acute Respiratory Syndrome (SARS).
- At the beginning of COVID-19, most of the cases were confined to Hubei province in China, but later by a substantial spread not only in China but worldwide.
- Early introductions of this emerging pathogen provide a unique opportunity to characterize its transmission, natural history, and the effectiveness of screening. Careful monitoring of cases and low probability of infection from the general community enables inferences important for modelling the course of the outbreak, that are difficult to make during a widely disseminated epidemic. We can make assumptions about when and where cases were likely to have been infected that are impossible when the pathogen is widespread.
- During early phases, uninfected and asymptomatic contacts are often closely tracked for providing important information for its transmission and natural history. Combined, these data on early introductions can be



Tianjin police officer on Covid-19 surveillance campaign by wearing a corona virus helmet

### MODULE II PATHOLOGY OF COVID-19

#### TABLE OF CONTENTS

1. What's COVID-19?
2. Epidemiology
3. Pathobiology
4. Diagnosis
5. Treatment

#### 1. WHAT'S COVID-19?

- Coronavirus disease 2019 (COVID-19) is an infectious respiratory disease caused by Coronavirus that emerged in Wuhan, China at the end of 2019.
- As this disease is not getting spread by any Specific geographical country, person, and group of person or an animal, World Health Organization (WHO) officially named this disease as "COVID-19".
- The virus causing COVID-19
  - Initially named as 2019-nCoV (Novel /Wuhan Virus)
  - Officially named as SARS-CoV-2 (Severe Acute Respiratory Distress Syndrome (SARS)-Coronavirus) because of its genetic similarity to the virus that cause SARS outbreak in 2002.

#### Coronavirus Infections Exceed SARS Outbreak



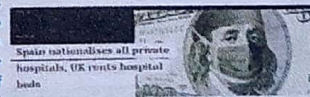
statista

### MODULE IV OVERVIEW OF PUBLIC HEALTH RESPONSE

When facing an infectious disease outbreak, natural or man-made disaster or other health crisis, we must be prepared to respond quickly and effectively. The Covid-19 epidemic was classified by the World Health Organization (WHO) as an epidemic of international significance, triggering a pre-agreed WHO response. Response from part of the administration and public is equally important in eradication of the pandemic.

#### GLOBAL RESPONSE ON COVID-19

A review of the health regulations across the whole world reveals that the European Union, Australia and the United Kingdom have specific legal frameworks to deal with public health issues. Australia has a law called the National Health Security Act 2007 and national agreements for prevention of health emergencies. They have adopted a participatory approach involving communities also in decision-making. In the United States, under the Public Health and Service Act, the US Department of Health and Human Services has laid down specific guidelines to assist the states during health emergencies and prevent the spread of all types of communicable diseases. The EU Decision 1082/13 is the key legal instrument for threats to health, which support the fulfillment of WHO's International Health Regulations, 2005.



Health officials in a step in the right direction, with confidence that infection... Governments adopting sudden and flexible measures to overcome medical crises.

But for a pandemic like COVID-19 it demands for sudden, flexible and drastic regulatory measures. For example in Spain, all private hospitals have been nationalized in the wake of the pandemic. South Korea and Malaysia has also adopted several good practices in tackling the epidemic. South Korea has adopted a robust mechanism of testing potential patients and utilizing IT in the fight against corona



## MODULE V SOCIAL IMPACT OF COVID 19

### INTRODUCTION

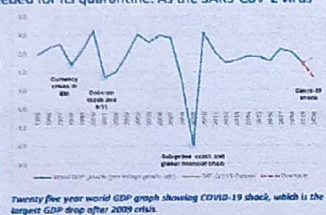
The outbreak of COVID-19 has changed the socio-economic, political and financial structure in every part of the world. Most of the people are in a state of complete lockdown as factories as well as business are being shutting down. In this unprecedented situation, we should aware about the consequences of COVID-19 pandemic and thereby establishing innovative strategies for its effective control in the nearby future.

### CONTENTS TO BE DISCUSSED

- Socio-Economic crisis of COVID -19
- Mental health and Psychological resilience of COVID - 19
- Environmental impact of COVID -19

### SOCIO-ECONOMIC CRISIS OF COVID 19

As this pandemic virus has far-reaching into the consequences beyond the spread of the COVID-19, needful efforts are needed for its quarantine. As the SARS-CoV-2 virus has spread around the globe, concerns have shifted from supply-side manufacturing issues to decreased business in the service sector. This outbreak of disease caused largest global recession in the history, with more than one third of the global population is at a place of lockdown. Due to the above situation, following socio economic crisis happened.



## MODULE VI INFORMATION RESPONSE TO COVID-19

### INFORMATION RESPONSE TO COVID 19

Trust in science and know that the world is working hard for humanity to be particularly respectful. Scientific cooperation is the token when dealing with global outbreak. Pandemic COVID 19 stolen lakhs of life and the whole world is very effectively acting to stop the attack of pandemic virus through attractive information, rapid response, immunity vaccines, Research and treatments.

### UNITED NATION MOBILIZES GLOBAL COOPERATION IN COVID-19 RESPONSES

The United Nation is mobilizing international cooperation to harness the power of science to tackle the coronavirus pandemic. The pandemic viral genome was mapped in January and shared globally. It has swallowed more than 215 countries, offering disasters and hazards. The COVID-19 pandemic is causing untold fear and suffering for older people across the world. The fatality rate for older people is higher overall, and for those over 80, it is five times the global average. Beyond its immediate health impact, the pandemic is putting older people at greater risk of poverty, discrimination and isolation.



Rapid response teams are racing against Covid 19

### UNESCO'S RESPONSE (United Nations Educational Scientific and Cultural Organisation)

UNESCO focuses COVID-19 outbreak as a global public health crisis. Scientific cooperation and attitude is essential when dealing with a global public health issue. They recommends that Continuous education and awareness must be

2

MES Keveeyam College, Valanchery

## Certificate of Completion



"Let's fight COVID-19"

Online Certificate Course

Awareness and  
Management of  
Pandemic COVID-19

Conducted by

Internal Quality Assurance Cell &  
Department of Zoology

This is to certify that  
{{Full Name}}  
{{Name of College}}

has successfully completed the one week online certificate course "Awareness and Management of Pandemic COVID 19" conducted by Internal Quality Assurance Cell and Department of Zoology during May 2020.

Principal  
Capt. (Dr) Abdul Hameed

Vice-principal & IQAC  
Coordinator  
Dr. C Rajesh

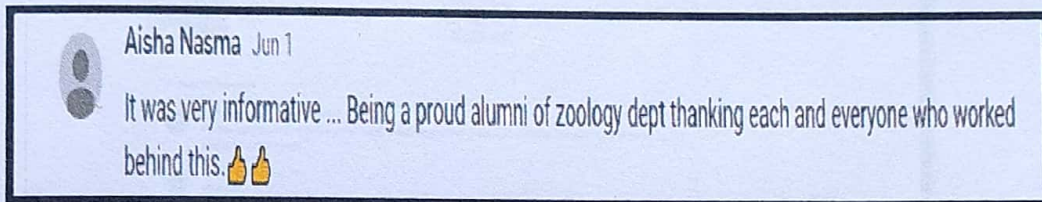
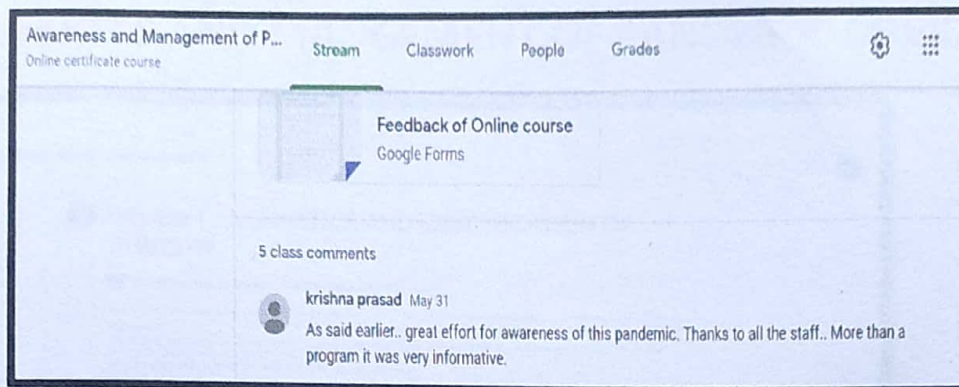
Head, Department of  
Zoology  
Mrs. Krishna prabha.K.S

Course coordinator  
Dr. Jisha Krishnan

Marks scored : {{percent}}  
Certificate ID : {{certificate id}}

Date of issue : {{Date2}}





We have received a well satisfied feedback reports from most of the candidates. As it was very simple and effective means to be followed, we got a wide acceptance from the public also. Hence it was undoubtfully a great privilege for us to making a successful initiative.

**Dr. Jisha Krishnan E K**

**(Co-coordinator)**



**Online Certificate Course**

# Awareness and Management of Pandemic COVID-19

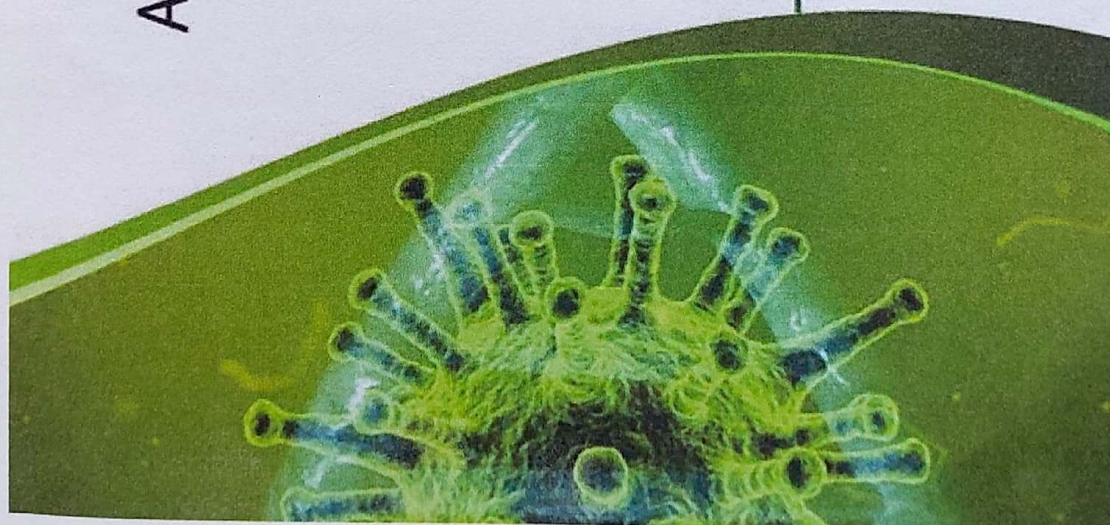
**Conducted by**

**Internal Quality Assurance Cell &  
Department of Zoology**

**MES KEVEEYAM COLLEGE VALANCHERY**

UG and PG students of colleges can enroll ♦ Duration of course is one week ♦ Course conducted in Google Classroom platform ♦ One text material will be uploaded every day and students have to do an assignment based on it ♦ e-Certificates will be awarded to students who complete the course ♦ For more details contact Dr Jisha Krishnan (Course Coordinator) @9037400068 or sajishakrishna22@gmail.com

[www.meskeveeyamcollege.ac.in](http://www.meskeveeyamcollege.ac.in)



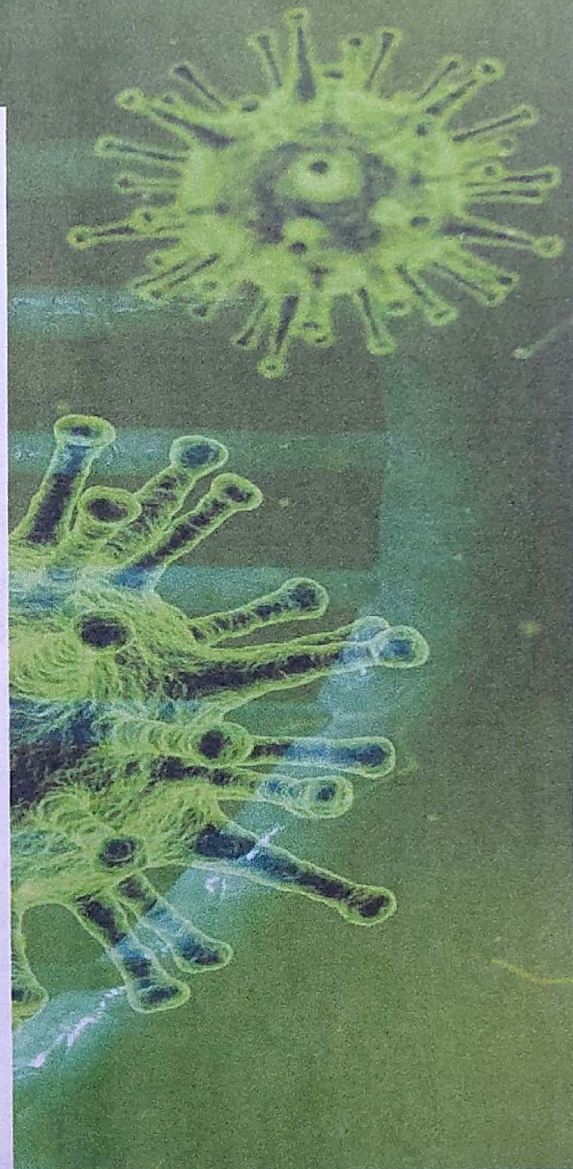


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**MES**  
Keveeyam College Valanchery