

MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

MICROBIOLOGY DEPARTMENT

FOOD & NUTRITION

AND

HEALTH EDUCATION

2021-2022







Dr. I. Vijjaya Babu Principal/chair person



Module-1

Basic concepts of nutrition

Module-2

Public health & Hygienic

Module -3

Nutrition& healtheducation

Teaching faculty



Ph.No.: 0891 2553262 visakhapatnam.idcollege@gmail.comFax.No.: 0891 2558123

Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC REACCREDITED A- GRADEINSTITUTION & DISTRICT IDENTIFIED COLLEGE) CENTRE FOR RESEARCH STUDIES Maddilapalem, VISAKHAPATNAM 530 013, Andhra Pradesh



PERMISSION LETTER TO START ADD-ON COURSE

From To

The Head of the department Principal,

Department of Microbiology Dr.V.S.Krishna Govt. Degree College

(A)

Dr.V.S.Krishna Govt. Degree College (A)

Sir

SUB: Permission to start an Add-on course for 2021-22 and permission to nominate the microbiology faculty to teach classes for the add on course - regarding

Ref: Resolution copy of the department of Microbiology Dated 02-05-2021

As per the resolution of the department of Microbiology, we are very much glad to start add-on course with a title "FOOD, NUTRITION AND HEALTH EDUCATION" for the B.Sc (MBBTC,MBBCC) students. Hence, we are requesting you to give permission to start the Add on course and also permission to teach theory and practical classes for the said add on course.

Thanking you sir,

Course Coordinator

Department of Microbiology

Ve -

PRINCIPAL



Dr.V.S.Krishna Govt. Degree College (Autonomous), Visakhapatnam Resolutions/Minutes of the 6th Board of Studies - January 2021

Subject: Microbiology Department: Microbiology

In pursuance of conferment of Autonomous status to Dr.V.S.Krishna Govt. Degree College(A), Visakhapatnam by the UGC vide letter No.F22-1/2011(AC) dated 20.07.2011 from Dr. Manju Singh, Joint Secretary, UGC, New Delhi and Proceedings No. C-II (CDC) /Dr.VSK.Govt.College/BOS/2020 dt.19.03.2020 of The Vice-Chancellor, Andhra University, Visakhapatnam, the 6th Board of Studies in Microbiology Subject is conducted on 28-01-2021 at 11:00 AM with the following members. The Changes will be implemented from 2020-21 academic year onwards.

MEMBER	NAME & DESIGNATION	SIGNATURE
Head of the Department (Chairman)	Dr.Ch.Lalitha HOD, Dept. of Microbiology Dr.VSK GDC(A), VSKP	1 2 1 1/2
Faculty Members	Ms D.Rupa Devi Guest Faculty Dr.VSK GDC(A), VSKP	Doopeni
Subject Expert (University Nominee)	Prof.P.K.Ratna Kumar Dept. of Botany Andhra University	P. K. Ral-
Subject Experts (from outside the parent university)	Dr.K.Aruna Lecturer in Microbiology Govt. College for Women(A) Kakinada	Anne
	Ms. A.Jyothi Lecturer in Microbiology Govt. College for Women(A) Srikakulam	Typhie
Member from Alumni	Dr.C.H.V.M.K.Hari HOD, Dept of Computer Science Dr.VSK GDC(A), VSKP	1
Coordinator, IQAC	Dr.Ch.Lalitha	dalite
Coordinator, Academic Council	Dr.D.Sravana Kumar HOD, Dept of Physics Dr.VSK GDC(A), VSKP	2001
Chairperson, Academic Council	Dr.V.Chandra Sekhar Principal Dr.VSK GDC(A), VSKP	Vasa

Dr. V.S. Krishna Govt. Degree College (A), Visakhapatnam DEPARTMENT OF MICROBIOLOGY

ADD ON COURSE IN FOOD, NUTRITION AND HEALTH EDUCATION (W.E.F. 2016 – 17)

(Theory – 52 hours; Practical – 18 Hours; Activity – 10 Hours = Total 80 Hours)

COURSE OUTCOMES

At the end of the course, the student will be able to

- . Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.
- I. Describe food toxicants, adulteration and food additives and explain prevention strategies of food contamination.
- II. Obtain knowledge about malnutrition, related deficiencies, methods of assessing nutritional status, nutritional policies and National programmes.

Module - I: Nutrition for the community

- 1. Unit: Basic concepts in nutrition
- 2. Unit: Meal planning
- 3. Unit: Food storage, preservation and safety
- 4. Unit: Nutrition related disorders
- 5. Unit: Nutrient deficiency control and supplementary feeding programme.

Module – II: Public Health and Hygiene

- 1. Unit: Health indicators
- 2. Unit: Environmental sanitation and safety
- 3. Unit: Dietary management of disease
- 4. Unit: Foodborne diseases, infections and intoxications
- 5. Unit: Common infections and infectious diseases.

Module III: Nutrition and Health Education

- 1. Unit: Primary health care
- 2. Unit: Health programmes
- 3. Unit: Nutrition and health status of the community
- 4. Unit: Themes, messages and their communication in nutrition and health education.
- 5. Unit: Nutrition programmes

PRACTICAL - 18 Hours

- 1. Finding Nutritive value of food stuffs
- 2. Methods of cooking
- 3. Planning Diets I
- 4. Planning Diets II
- 5. Isolation of bacteria and fungi from contaminated foods
- 6. Methods of food preservation

Dr. V. S. KRISHNA GOVT. DEGREE COLLEGE (AUTONOMOUS) MADDILAPALEM, VISAKHAPATNAM_

DEPARTMENT OF MICROBIOLOGY MODEL OUESTION PAPER FOR VALUE-ADDED-COURSE

FOOD, NUTRITION AND HEALTH EDUCATION

SECTION - A

Answer the following

 $3 \times 20 M = 60 M$

- 1. A) Discuss in detail about different methods of food storage and preservation (OR)
- 1. B) Discuss about nutrition related disorders and their management
- 2. A) Write about food borne diseases Food intoxication and Food poisoning. (OR)
- 2. B) Write about importance of environmental sanitation to public health
- 3. A) What is primary health care? Discuss various components of health care. (OR)
- 3. B) Describe different health programmes observed in India and abroad.

SECTION - B

Answer any FOUR questions from the following

 $4 \times 5 M = 20 M$

- 4. Meal planning
- 5. Concept of nutrition
- 6. Indicators of health
- 7. Common infectious diseases
- 8. Health education
- 9. Nutrition programmes

SECTION - C

Answer the following

 $1 \times 20 M = 20 M$

10. Prepare a healthy and balanced food recipe.

	FNHE Add-on-Cou	Jean 2021 - 2022
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1.	G. Sai kumar	ENHE 2021-22 01
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3.	M. Kannayya Naidu	FNHE 2021-22 103
4.	S. Manikanta x x	FNHE 20-21-22/04
5.	K. Kalyan	FNHE 2021-22 105
6.	B Shahunjay x	FNHE 2021-22 06
4.	V Satya Kuman	FNHE 2021-22/07
8.	M. Eswaraox x	FMHE 2021-22/08
9.	M. Emmanuel Amos	
10.	P. Mallesmar Ros	FNHE 2021-22/10
11-	G. Santhach	FNHE 2021-22/11
12.	M. Chinna X X X	FNHE 2021-20/12
13.	P. Jewan kuman	FNHE 2021-22/13
14.	G. Manikanta X X	FNHE 2021-22 /14
15.	T. Geethika X x	FNHE 2021-22/15
16.	G. Seravani X X X	FNHE 2021-22/16
17.	P. Snitakshmi X X	FNHE 2021-22/17
18.	V. Srujanax v	FNHE 2021-22/18
19.		FNHE 2021-22/19
20.	P. Pragathi	FNHE 2021-22/20
21	R. Durga Bhavani	PNHE 2021-22/21
22.	K. Jyotshna	FNHE 2021-22/22
23.	5. Manjuusha	FNHE 2021-22/23
24	B. Lakshmi Perasanna	FNHE 2021- 22/24
25.	P. Kusuma	FNHE 2021-22/25
26.	T. Sujatha	FNHE 2021-22/26
27	SK. Naziera	FNHE 2021-22/27
28.	G. Prasanna Jakshmi	FNHE 2021-22/28
29.	D. Madhavi	FNHE 2021-22/29
30-	K. Snavana Tyothi	FNHE 2021-22/30

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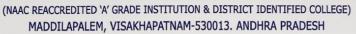
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DEPARTMENT OF MICROBIOLOGY ADD-ON COURSE-FOOD, NUTRITION AND HEALTH EDUCATION

Award List 2021-22 batch

FNHE SERIAL NO.	UNIQUE ID NO.	NAME OF THE STUDENT	MARKS	GRADES
FNHA21-22/01	E19206030	G. Sai kumar	93	0
FNHA21-22/02	E19206018	Y.Madhu	98	0
FNHA21-22/03	E19206014	M.Kannayya naidu	94	0
FNHA21-22/04	E19206019	S.Manikanta	86	0
FNHA21-22/05	E19206012	K .Kalyan	87	0
FNHA21-22/06	E19206005	B.Dhanunjay	93	0
FNHA21-22/07	E19206032	V.Satya kumar	90	0
FNHA21-22/08	E19205011	M.Eswarao	100	0
FNHA21-22/09	E19205010	M.Emmanuel amos	90	0
FNHA21-22/10	E19205018	P.Malleswar rao	85	0
FNHA21-22/11	E19205029	G.Santhosh	92	0
FNHA21-22/12	E19205006	M.Chinna	94	0
FNHA21-22/13	E19205016	P.Jeevan kumar	95	0
FNHA21-22/14	E19205019	G.Manikanta	96	0
FNHA21-22/15	E19205013	T.Geethika	100	0
FNHA21-22/16	E19205032	G.Sravani	90	0
FNHA21-22/17	E19205034	P.Srilakshmi	97	0
FNHA21-22/18	E19206033	V.Srujana	96	0
FNHA21-22/19	E19206027	D.Rebacca	96	0
FNHA21-22/20	E19206025	P.Pragathi	87	0
FNHA21-22/21	E19206006	R.Durga bhavani	100	0
FNHA21-22/22	E19206011	K.Jyotshna	93	0
FNHA21-22/23	E19206020	S.Manju usha	100	0
FNHA21-22/24	E19206016	B.Lakshmi prasanna	96	0
FNHA21-22/25	E19206015	P.Kusuma	97	0
FNHA21-22/26	E19206034	T.Sujatha	95	0
FNHA21-22/27	E19206022	SK.Nazeera	100	0
FNHA21-22/28	E19206026	G.Prasanna lakshmi	95	0
FNHA21-22/29	E19206017	D.Madhavi	94	0
FNHA21-22/30	E19205031	K.Sravana jyothi	85	0







ADD-ON COURSE CERTIFICATE

2021 - 2022

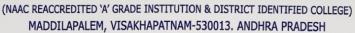
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MB BCC	has successfully completed the Add - on Course.	FNHE with
Regd No. FNHE 2021-22 19	Organized by the Department of	inin
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grade.		
3QA Coordinator Course Coordinator	Academic Coordinator Dr. V	PRINCIPAL PRINCIPAL V.S. Krishna Govt. Degree College(A)

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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC REACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE) MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH	
ADD-ON COURSE CERTIFICATE	
2021 - 2022	15
This is to certify that Mr. / Miss	
Regd No FNHE 2021-22 02 Organized by the Department of MiCrobiology in collaboration with during year 2021 - 2022 . He / She has passed the course with	
grade.	
Course Coordinator Dr. V.S. Krishna Govt. Degree College(A)	

Dr. V.S. Krishna Govt. Degree College(A)







ADD-ON COURSE CERTIFICATE

2011 - 2012

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This is to certify that Mr. / Miss	
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Course Coordinator Academic Georginator Dr. V.S. Krishna Govt. Degree College(A)	

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Dr. V.S. Krishna Govt. Degree College(A)





(NAAC REACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE) MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

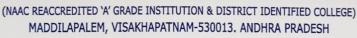
ADD-ON COURSE CERTIFICATE

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This is to certify that Mr. / Miss	of
MB- BT-C has successfully completed the Add - on Course FNHE	with
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collaboration withduring year 2011 - 2012 . He / She has passed the	course with
grade.	
PRINCIPAL PRINCIPAL Course Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)

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ADD-ON COURSE CERTIFICATE

2021 - 2022

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Scanned with ACE Scanner



Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A)

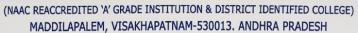
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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH



ADD-ON COURSE CERTIFICATE

This is to certify that Mr. / Miss	of
MB·Bc·C has successfully completed the Add - on Course FNHE	
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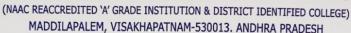
2021 - 2022

This is to certify that Mr. / M	lissKKK.	nna.	of
MB·BC·c has succe	ssfully completed the Add - or	n Course ENHE wi	th
Regd No. FNHE 2021-22)22 Organize	d by the Department of	Microbiology	in
	during year 20 1 .	- 2012 . He / She has passed the course with	th
grade.			
MAC Commission Course Coordinator	Academic Coordinator	PRINCIPAL 2021 Dr. V.S. Krishna Govt. Degree College(A)	

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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A)





ADD-ON COURSE CERTIFICATE

2021 - 2022
This is to certify that Mr. / Miss
MB·BT-c has successfully completed the Add - on Course FNHE with
Regd No. FNHE 2021-22 / 15 Organized by the Department of Milyobiology in
collaboration withduring year 2021 - 2022 . He / She has passed the course with
grade.
IQAC coordinator Course Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)





va

(NAAC REACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)
MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

2021 - 2022

This is	s to certify that Mr. / Mi	ssB. Dhanunjo	<u></u>	of
Мв.	·B C·C has succes	sfully completed the Add - or	Course FNHE	with
Regd No. FNHE	2021-22 106 Organized	d by the Department of	Microbiology	in
collaboration with		during year 20 2 .1	- 20⊉⊉. He / She has passed the	course with
Jakine BAC Coordinator	Course Coordinator	Academic Coordinator	PRINCIPAL 19 20 22 Dr. V.S. Krishna Govt. Degree Colleg	

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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A)



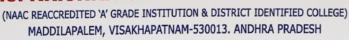
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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

202/ - 2022

This is to certif	y that Mr. / Miss	V-Satya K	umar	of
				FNHE with
Regd No. FNHE 2021-22	107 Organized by the D	Department of	Microbio	(109.yin
	-	during year 20 2 .1	-20 1 2 . He/S	the has passed the course with
grade.				
IQAC Coordinator Course Co	ordinator Acad	demic Coordinator	Dr. V.S. Krishn	PRINCIPAL 19 5/2002







ADD-ON COURSE CERTIFICATE

2021 - 2022

This is to certify that	Mr./Miss	1 Raoof
MB·Bt-c ho	as successfully completed the Add	- on Course FNHE with
Regd No.FNHE 2021-22 /08	Organized by the Department of	Microbiology in
collaboration withgrade.	during year 20	2) = 2022 . He / She has passed the course with
JOAC Coordinator Course Coordinato	Academic Coordinator	PRINCIPAL OF COLLEGE (A) Dr. V.S. Krishna Govt. Degree College (A)

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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A)

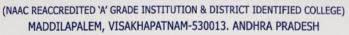


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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

This is to certify that Mr. / Mis.	s M. Emmaneul	Amosof
MB · Bt · c has success	fully completed the Add - o	n CourseFNHE with
Regd No.FNHE 2021- 22/09. Organized	by the Department of	Mì Crobiology in
collaboration with	during year 20 2-1	- 20 12 . He / She has passed the course with
grade.		
JOAC Coordinator Course Coordinator	Academic Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)







ADD-ON COURSE CERTIFICATE

2021 - 2022

This is to certify that Mr. / Mis	sP. Malleswar	Raoof
MB·BT·c has success	fully completed the Add - or	Course FNHE with
Regd No. FNHE 2021-22/10 Organized	by the Department of	Microbiology in
collaboration with	during year 20 2.	- 20 2 2 . He / She has passed the course with
grade.		
IOAC Soorelinator Course Coordinator	Academic Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)

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ADD-ON COURSE CERTIFICATE

2021 - 2022
This is to certify that Mr. / Miss
MB·Bc·c has successfully completed the Add - on Course FNHE with
Regd No. FNHE 2021-22 105 Organized by the Department of Milyobiology in
collaboration withduring year 2021 - 2012 . He / She has passed the course withgrade.
PRINCIPALI





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ADD-ON COURSE CERTIFICATE

202 - 2012

This is to certify that Mr. / Miss
MB·Bc·C has successfully completed the Add - on Course FN HE with
Regd No. FN HE 2021-22 /01 Organized by the Department of Microbiology in
collaboration withduring year 20 21 - 20 22 . He / She has passed the course withgrade.
PRINCIPAL POLICE Course Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)

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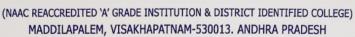


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ADD-ON COURSE CERTIFICATE

2021 - 2022
This is to certify that Mr. / Miss M. Kannayya Naidu
MB·C·C has successfully completed the Add - on Course FN HE with
Regd No. FNHE 2021 -22 /03 Organized by the Department of Microbiology in
collaboration withduring year 20½1 - 20½2 . He / She has passed the course withgrade.
IQAGCoordinator Course Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)







ADD-ON COURSE CERTIFICATE

2021 - 2022

This is to certify that Mr. / Mi	ssS. Maniko	anta
MIB·B·c·c has succes	ssfully completed the Add - o	on Course FN HE wit
Regd No.FNHE 2021-32 /04 Organized	d by the Department of	Microbiology
collaboration withgrade.	during year 20 1 .l	- 20 2.2 . He / She has passed the course wit
HOAC Coordinator Course Coordinator	Academic Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)

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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

This is to certify that Mr. / Miss	l·chinna of
M.B.B.T.Chas successfully completed the A	dd - on Course FNHE with
Regd No. FNHE 2021-22./12 Organized by the Department of .	Microbiology in
collaboration withduring year	20 2 1 - 20 2 2. He / She has passed the course with
grade.	
IQAC coordinator Course Coordinator Academic Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)





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ADD-ON COURSE CERTIFICATE

2021 - 2022

This is to certify that Mr. / Mi.	ss P. Juevan	Kumu of
M8·8T·c has succes	sfully completed the Add - o	on Course FNHE with
Regd No. FNHE 2021-22 / 13 Organized	by the Department of	MiCrobiologyin
	during year 20 2 .	- 2013 . He / She has passed the course with
grade.		
IQACeoormalor Course Coordinator	Academic Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)

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ADD-ON COURSE CERTIFICATE
2011 - 2012
This is to certify that Mr. / Miss
MB·BT·C has successfully completed the Add - on Course FNHE with
Regd No.FNHE 2021-22 14 Organized by the Department of MilyDbiology in
collaboration withduring year 2011 - 2012 . He / She has passed the course with
grade.
PRINCIPAL PLANT (9) Academic Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)





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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

2021 - 2012

This is to certify that Mr. / Miss				
MB·BT·C has successfully completed the Add - on Course				
Regd No. FNHE 2021-22 16 Organized by the Department of Microbiology in				
collaboration with	during year 20 2-1	- 20 2.2 . He / She has passed the course with		
grade.				
MACCoordinator Course Coordinator	Academic Coordinator	PRINCIPAL 19(1)2002 Dr. V.S. Krishna Govt. Degree College(A)		

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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

202) - 2022
This is to certify that Mr. / Miss P. ടங்க kshmi
MB·BT·C has successfully completed the Add - on Course FNHE with
Regd No. FNHE 2021-22/17 Organized by the Department of Microbiology in
collaboration withduring year 2021 - 2022 . He / She has passed the course with
*grade.
PRINCIPAL Course Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)





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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

2021 - 2022

This is to certify that Mr. / M	iss V· Sruja	naof
MB⋅Bc⋅c has succe	ssfully completed the Add - on C	ourse FNHE with
Regd No. FNHE2021-22) 18 Organize	d by the Department of	Microbiology in
collaboration withgrade.	during year 20 2 .1 - 2	20 12 . He / She has passed the course with
10AC Coordinator Course Coordinator	Academic Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)

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