



Module-1

Basic concepts of nutrition

Module-2

Public health & Hygienic

Module -3

Nutrition& healtheducation

Teaching faculty



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 2018-19 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 31-07-2018

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

PRINCIPAL

Dr.V.S.Krishna Govt. Degree College (Autonomous), Visakhapatnam

Resolutions/Minutes of the 4th Board of Studies 2017-18

Subject: 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 of the Vice Chancellor No.C-II(1) Dr.V.S.Krishna.Govt.College/BOS/2017 dt.17.04.2017 The 4th Board of Studies in Microbiology s Subject is conducted on 18-04-2017 at 10:30 AM with the following members. The Board of Studies in Microbiology Subject has approved the syllabus under Choice Based Credit System, changes in the syllabus, Question paper Blue Print and the evaluation system. The Changes will be implemented from 2017-18 academic year onwards.

MEMBER	NAME & DESIGNATION	SIGNATURE
Subject Expert (University Nominee)	Prof.P.K.Ratna Kumar Department of Microbiology Andhra University	P. K. Ratu HEAD 244/7 DEPARTMENT OF MICROBIO COLLEGE OF SCIENCE & TECH
Subject Expert (from the Affiliated College)	Smt.D.Syamala Asst.Professor of Microbiology GVP Degree College Visakhapatnam	ANDHRA UNIVERSITY
Representative Member From Industry / Corporate / Allied Area relating to placement	DR.Ch.V.M.K.Hari Coordinator Nodal Jawahar Knowledge Centre &Career Guidance Cell	2
Member from Alumni		
Head of the Department	Dr.Y.V.K.Durga Prasad	Dh
Faculty Members	l. Dr.Ch.Lalitha	fatithe
Coordinator, Academic Council	Dr.D.Sravana Kumar Reader in Physics.	2500
Chairperson, Academic Council	Dr.V.Chandra Sekhar Principal	V

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

- I. Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.
- II. Describe food toxicants, adulteration and food additives and explain prevention strategies of food contamination.
- III. 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 QUESTION 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.
- 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

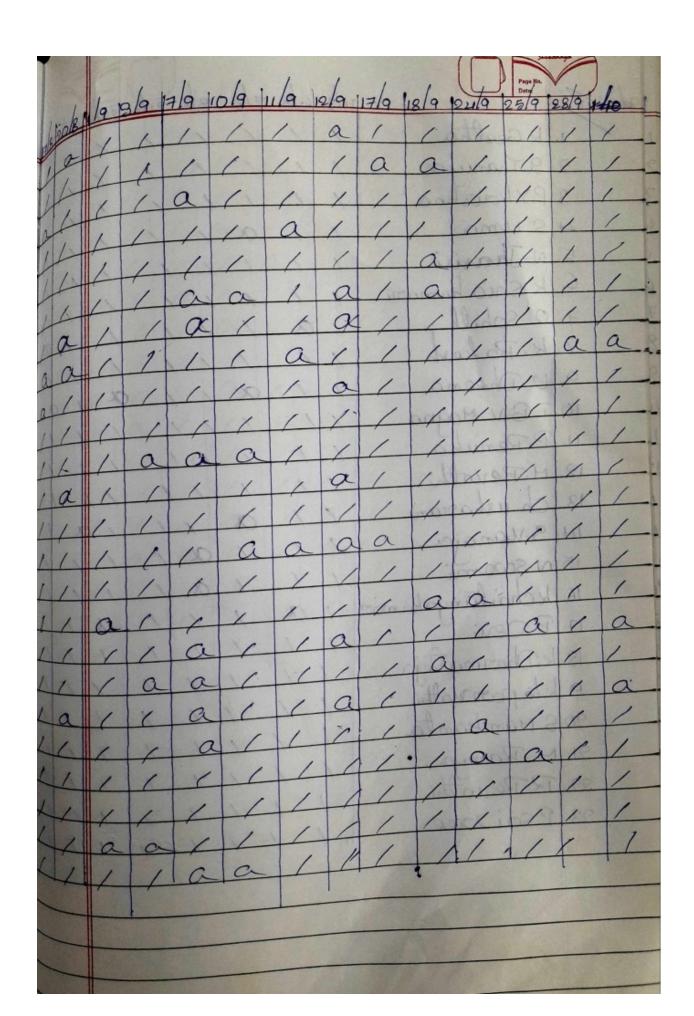
SECTION - C

Answer the following

 $1 \times 20 M = 20 M$

10. Prepare a healthy and balanced food recipe.

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

Award List 2018-19 batch

FNHE SERIAL NO.	UNIQUE ID NO.	NAME OF THE STUDENT	GRADES	MARKS
FNHE 2018-19/01	E16206014	G. PRAVEEN	75	A
FNHE 2018-19/02	E16206024	B. SWATHI	86	0
FNHE 2018-19/03	E16206001	G. ARUNA	88	0
FNHE 2018-19/04	E16206018	S. REVATHI	90	0
FNHE 2018-19/05	E16206025	CH. SINDUSHA	75	Α
FNHE 2018-19/06	E16206007	B. JYOTHI	78	A
FNHE 2018-19/07	E16206015	N. PREM KUMAR	80	A
FNHE 2018-19/08	E16206017	T. REVATHI	75	A
FNHE 2018-19/09	E16206003	P. BHAVANI	76	A
FNHE 2018-19/10	E16206020	A.SIMHACHALAM	89	0
FNHE 2018-19/11	E16205006	M.JHANSI	95	0
FNHE 2018-19/12	E16205005	K. GEETHA	90	0
FNHE 2018-19/13	E16205022	S. THANUJA	88	0
FNHE 2018-19/14	E16205026	P. Y. KRISHNA	98	0
FNHE 2018-19/15	E16205023	S. UMA	90	0
FNHE 2018-19/16	E16205004	N. JHANSI	86	0
FNHE 2018-19/17	E16205019	K. SIVA KUIMAR	87	0
FNHE 2018-19/18	E16205020	O. SOHILL	80	A
FNHE 2018-19/18	E16205013	K. RAKESH	86	0
FNHE 2018-19/20	E16205004	U. DHEENA	78	Α
FNHE 2018-19/21	E16205009	T. B. V. MANGA	97	0
FNHE 2018-19/22	E16205015	P. RENUKA	86	0
FNHE 2018-19/23	E16205016	M. REVATHI	80	A
FNHE 2018-19/24	E16205024	CH. USHARANI	81	Α
FNHE 2018-19/25	E16206008	M. KAVYA	88	0
FNHE 2018-19/26	E16203029	N. VINODH KUMAR	93	0
FNHE 2018-19/27	E16203023	E. SIVA KUMAR	80	A
FNHE 2018-19/28	E16203019	G. V. K. SATYANARAYANA	86	О
FNHE 2018-19/29	E16204018	B. J. V. SANTOSH KUMAR	75	A
FNHE 2018-19/30	E16204017	B. SAI KUMAR	87	0
FNHE 2018-19/31	E16204013	S. PRASANNA	75	A
FNHE 2018-19/32	E16204001	A.ANURADHA	75	A
FNHE 2018-19/33	E16296011	L. NAVEEN KUMAR	86	0
FNHE 2018-19/34	E16206009	M. KRISHNAVENI	78	A







ADD-ON COURSE CERTIFICATE

7	This is to certify t	hat Mr. / Miss G.PRAVEEN	of
	MB.BC.C	has successfully completed the Add - on Course	"FOOD NUTRITION AND HEALTH EDUCATION"
Regd No	E16206014	Organized by the Department of	MICROBIOLOGY in
	on withgrade.	during year 2018 - 2019	. He / She has passed the course with
	Course Coordinal	_e_ tor Dr.	PRINCIPAL W.S. Krishna Govt. Degree College(A)







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This is to certify that Mr. / Miss	G. ARUNAof
MB.BC.Chas successfully completed the Add	- on Course with
Regd No E16206001 Organized by the Department of	MICROBIOLOGY in
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Cours	e Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. De	







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		during year 2018 - 2019	. He / She has passed the course with
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Regd No E16206015	Organized by the Department of
collaboration with	during year 2018 - 2019 . He / She has passed the course with
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Course Coon	finator Dr. V.S. Krishna Govt. Degree College(A)







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2018 - 2019

This is to certify that Mr. / Miss	T. REVATHIof
MR BC C	- on Course with
Regd No E16206017 Organized by the Department of	MICROBIOLOGY in
collaboration withduring year 20	018 - 2019 . He / She has passed the course with
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Course Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)



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Regd No E16206003	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
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MB.BC.C	has successfully cor	mpleted the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* With
Regd No E1620	6020Organized by the D	epartment of	MICROBIOLOGY in
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collabora	tion with	during year 2018 - 2019	. He / She has passed the course with
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	Course Coordina	otor Dr. V	PRINCIPAL /S. Krishna Govt. Degree College(A)





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Course Coordinate	Dr. V	/S. Krishna Govt. Degree College(A)



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	MB.BT.C	has successfully completed the Add - on Course	*FOOD NUTRITION AND HEALTH EDUCATION* With
Regd No	E16205026	Organized by the Department of	MICROBIOLOGY in
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2018 - 2019

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Regd No	E16205023	Organized by the Department of	MICROBIOLOGY in
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	Course Coordina	tor Dr. V	.S. Krishna Govt. Degree College(A)



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ADD-ON COURSE CERTIFICATE

2018 - 2019

Th	nis is to certify i	hat Mr. / MissK. SHIVA KUMA	RIof
	MB.BT.C		FOOD NUTRITION AND HEALTH EDUCATION®
Regd No	E16205019	Organized by the Department of	MICROBIOLOGY in
		during year 2018 - 2019	. He / She has passed the course with
0	grade.		V
	Course Coordina	_0_ Dr. V	PRINCIPAL (S. Krishna Govt. Degree College(A)



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



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ADD-ON COURSE CERTIFICATE

2018 - 2019

This is to certify that Mr. / Miss	
MB.BT.Chas successfully completed the Add - on Cours	*FOOD NUTRITION AND HEALTH EDUCATION* e
Regd No E16205020Organized by the Department of	MICROBIOLOGY in
collaboration withduring year 2018 - 2019	. He / She has passed the course with
Agrade.	v/







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ADD-ON COURSE CERTIFICATE

2018 - 2019

This is to certify that Mr. / Miss	RAKESHof
MB BT C	"FOOD NUTRITION AND HEALTH EDUCATION" On Course with
Regd No E16205013Organized by the Department of	MICROBIOLOGY in
collaboration withduring year 2018	- 2019 . He / She has passed the course with
grade.	
Course Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)



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This is to certify the	at Mr. / Miss	of
MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No E16205004	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
grade.		
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This is to certify that Mr. / Miss	GNAof
MB.BT.Chas successfully completed the Add - on Cou	*FOOD NUTRITION AND HEALTH EDUCATION* Urse
Regd NoE16205009 Organized by the Department of	MICROBIOLOGY in
collaboration withduring year 2018 - 20	19 . He / She has passed the course with
Ograde.	
Course Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)



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	This is to certify	that Mr. / Miss	of
	MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No	E16205015	Organized by the Department of	MICROBIOLOGY in
collaborat	tion with	during year 2018 - 2019	. He / She has passed the course with
	ograde.		









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	MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION*
Regd No	E16205016	Organized by the Department of	MICROBIOLOGY in
		during year 2018 - 2019	. He / She has passed the course with
	Agrade.		V
	Course Coordina	_0_ tor Dr. V	PRINCIPAL (S. Krishna Govt. Degree College(A)



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***************************************	MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION® With
Regd No	E16205024	Organized by the Department of	MICROBIOLOGY in
collabora	tion with	during year 2018 - 2019	. He / She has passed the course with
	Agrade.		
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		M. KAVYA	
7	This is to certify	that Mr. / Miss	of
	MB.BC.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION*
Regd No	E16206008	Organized by the Department of	MICROBIOLOGY in
collaboratio	on with	during year 2018 - 2019	. He / She has passed the course with
0	grade.		
	1-1-		PRINCIPAL
	Course Coordina	obstor Dr. V	/.S. Krishna Govt. Degree College(A)



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2018 - 2019

This is to certify	that Mr. / Missof
B.Z.C	has successfully completed the Add - on Course with
Regd No E16203029	Organized by the Department of
collaboration with	during year 2018 - 2019 . He / She has passed the course with
grade.	







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This is to certify that Mr. / Miss	
"FOOD NUTRITION AND HEALTH EDUCATION" ne Add - on Course	
t ofin	
year 2018 - 2019 . He / She has passed the course with	
PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)	



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This is to certify	that Mr. / Miss	YANAof
B.Z.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No E16203019	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
ograde.		
		V









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This is to certify that Mr. / Miss	SANTHOSH KUMARof
BT.B.Chas successfully completed the Ad	'FOOD NUTRITION AND HEALTH EDUCATION" Id - on Course with
Regd No E16204018Organized by the Department of	MICROBIOLOGY in
collaboration withduring year	2018 - 2019 . He / She has passed the course with
Agrade.	
	V
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This is to certify	that Mr. / Miss	Rof
BT.B.C	has successfully completed the Add - on Course	"FOOD NUTRITION AND HEALTH EDUCATION"
Regd No E16204017	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
grade.		V









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1	This is to certify	that Mr. / Miss	of
	BT.B.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* With
Regd No	E16204013	Organized by the Department of	MICROBIOLOGY in
collaboratio	on with	during year 2018 - 2019	. He / She has passed the course with
A	grade.		
			1
	Course Coordina	0_ stor Dr. V	PRINCIPAL S. Krishna Govt. Degree College(A)



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	This is to certify	that Mr. / Miss	of
	BT.B.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION®
Regd No	E16204001	Organized by the Department of	MICROBIOLOGY in
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A	grade.		
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This is to certify t	that Mr. / MissL.NAVEEN KUM	ARof
MB.BC.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION*
Regd No E16296011	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
grade.		
. 1		V
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	This is to certify	that Mr. / Miss	NIof
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Regd N	o E16206009	Organized by the Department of	MICROBIOLOGY in
collabo	ration with	during year 2018 - 2019	. He / She has passed the course with
	Agrade.		
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	This is to certify	that Mr. / Miss	of
	MB.BC.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION*
Regd No	E16206019	Organized by the Department of	MICROBIOLOGY in
collabora	tion with	during year 2018 - 2019	. He / She has passed the course with
	Agrade.		
			1
	Course Coordina	0_ ottor	PRINCIPAL (S. Krishna Govt. Degree College(A)



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	This is to certify	that Mr. / Miss	of
	MB.BC.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No	E16206010	Organized by the Department of	MICROBIOLOGY in
collaborati	ion with	during year 2018 - 2019	. He / She has passed the course with
	Agrade.		
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This is to certify t	hat Mr. / Miss	of
MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* With
Regd No E16205025	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
grade.		
1-1-10	0	PRINCIPAL
Course Coordina	Dr. V	S. Krishna Govt. Degree College(A)



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T	his is to certify	that Mr. / Miss	of
	MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No	E16205021	Organized by the Department of	MICROBIOLOGY in
collaboratio	n with	during year 2018 - 2019	. He / She has passed the course with
Α	grade.		









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2018 - 2019

This is to certify that	Mr. / MissK.CHAITANYA KU	
MR BT C		FOOD NUTRITION AND HEALTH EDUCATION*
Regd No E16205001	rganized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
grade.		
1-1-10		PRINCIPAL
Course Coordinator	Dr. V	S. Krishna Govt. Degree College(A)



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	This is to certify	that Mr. / Miss	of
	MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No	E16205002	Organized by the Department of	MICROBIOLOGY in
collaborat	ion with	during year 2018 - 2019	. He / She has passed the course with
	Agrade.		V -









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This is to co	ertify that Mr. / Miss	IA TEJAof
MB.BT.C	has successfully completed the Add - on C	"FOOD NUTRITION AND HEALTH EDUCATION" COURSE
Regd No E162050	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2	2019 . He / She has passed the course with
Agra	de.	
Course	Coordinator	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)



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	This is to certify	that Mr. / MissK.LAKSHMI PARV	ATHIof
	MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION* with
Regd No	E16205007	Organized by the Department of	MICROBIOLOGY in
collaborat	ion with	during year 2018 - 2019	. He / She has passed the course with
	Agrade.		
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This is to certify that Mr. / Miss	'Aof
MB.BT.Chas successfully completed the Add - on Cours	*FOOD NUTRITION AND HEALTH EDUCATION*
Regd No E16205010Organized by the Department of	MICROBIOLOGY in
collaboration withduring year 2018 - 2019	. He / She has passed the course with
Agrade.	
Course Coordinator Dr.	PRINCIPAL V.S. Krishna Govt. Degree College(A)



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This is to	certify that Mr. / Miss	M.RAMYAof
MB.BT.	has successfully completed t	the Add - on Coursewith
Regd No E1620	5014Organized by the Departmen	nt ofin
collaboration with	during	year 2018 - 2019 . He / She has passed the course with
g	rade.	W.

Course Coordinator







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MB.BT.C	has successfully completed the Add - on Course	FOOD NUTRITION AND HEALTH EDUCATION*with
Regd No E16205017	Organized by the Department of	MICROBIOLOGY in
collaboration with	during year 2018 - 2019	. He / She has passed the course with
grade.		
1—		PRINCIPAL
Course Coordinato	P. Dr. V	S. Krishna Govt. Degree College(A)



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	This is to certify	that Mr. / Miss	of
	MB.BT.C	has successfully completed the Add - on Course	"FOOD NUTRITION AND HEALTH EDUCATION" With
Regd No	E16205018	Organized by the Department of	MICROBIOLOGY in
collaborati	ion with	during year 2018 - 2019	. He / She has passed the course with
	grade.		
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MB.BC.Chas successfully completed the A	dd - on Coursewith	
Regd No E16206013Organized by the Department of .	MICROBIOLOGY in	
collaboration withduring year	2018 - 2019 . He / She has passed the course with	
Agrade.		
- Lui - 0	PRINCIPAL Dr. V.S. Krishna Govt. Degree College(A)	