





DEPARTMENT OF MICROBIOLOGY

2022 - 2023

FOOD NUTRITION & HEALTH EDUCATION





DR. CH. LALITHA Course coordinator

DR. I. VIJAY BABU Principal / Chair person



Basic concepts of nutrition

Module - 2

Public health and Hygiene

Module - 3

Nutrition and Health Education

Course coordinator:

Teaching faculty:

Ph.No.

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 2022-23 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 26-11-2022

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



PHONE: 0891 2553262visakhapatnam.idcollege@gmail.com FAX: 0891 2558123 Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE(AUTONOMOUS) (NAAC REACCREDITED "A" GRADE INSTITUTION (A.H. GOPA) & DESTRICT IDENTIFIED COLLEGE DISTRICT RESOURCE CENTRE & CENTRE FOR RESEARCH STUDIES



Maddilapalem, Visakhapatnam 530 013, Andhra Pradesh DEPARTMENT OF MICROBIOLOGY

Minutes of Board of Studies - 2022

- The Board of Studies of Department of Microbiology met on 27-09-2022 and resolved the following: 1. The revised Choice Based Credit System (CBCS) curriculum of the parent university was adopted and did necessary modifications up to 40% by implementing National Education Policy - 2020 guidelines.
 - 2. Approve the newly framed syllabus of sem-1 to sem-5/6 by the Board of Studies (BOS) in B.Sc. Microbiology for the 2022-23 admitted batch. The newly framed syllabus is oriented in such a way that it caters the needs of the student and to meet the present-day job employability requirements and to develop sound skill techniques in the fields of Microbiology.
 - 3. To implement the newly framed syllabus to the following programmes
 - i) Microbiology, Biotechnology and Chemistry (2020-21, 2021-22, 2022-23 admitted batches)
 - ii) Microbiology, Biochemistry and Chemistry (2020-21 and 2022-23 admitted batches)
 - iii) Microbiology, Botany, Chemistry (2021-22 admitted batch)
 - 4. There are 5 core courses and 2 Skill Enhancement Courses (SEC) each offered with theory for 4 credits and practical for 1 credit.
 - 5. Core -1 in semester -1, core-2 in semester-2, core-3 in semester-3, core- 4 & 5 in semester-SEC-1 & 2 are offered in semester-5/6.
 - 6. At the end of semester-2 the students are engaged in internship-1 in which they are assigned a Community Service Project (CSP) for 4 weeks. 4 credits are offered for 1st internship. At the end of semester-4 the students are engaged in internship-2 in which they are sent for industry training for 8 weeks. 4 credits are offered for 2nd internship. After 4th semester the students must complete SEC-1&2 in semester -5 or 6. As a part of 3rd internship the students must work in industry for a period of 6 months under On Job Training (OJT) in industry.
 - 7. To approve courses 6 & 7 (SEC-1 & 2) for 2020-21 admitted batch & sem-3,4,5/6 for 2021-22 batch.
 - 8. To ratify sem-1 & sem-2 courses for 2021-22 admitted batch.
 - 9. Further it is approved/ratified the model question papers for 75 external marks and 25 internal marks. The internal examination will be conducted for 20 marks in the form of 2 mid semesters. The average marks are taken, and 5 marks fixed for assignments, cocurricular activities, attendance and project works will be added.

10. The questions in the internal assessment will range from the lowest level of the learning to The highest i.e., from the Lower Order Thinking Skills (LOTS) to the Higher Order Thinking Skills (HOTS).

REMEMBERING \Rightarrow UNDERSTANDING \Rightarrow CREATING \Rightarrow APPLYING \Rightarrow EVALUATING \Rightarrow ANALYZING

- 11. Conduct seminars, workshops, symposia, field visits, quiz programmes and exhibitions to inculcate creative ideology among the students and make the students aware of the recent on goings in the applied fields mentioned earlier.
- Encourage students to take up independent research projects at UG level by providing infrastructure and knowledge assistance.
- 13. Conduct of remedial coaching to the slow learners.
- 14. To implement ICT based innovative teaching methodology using audio visual lessons.
- 15. It is resolved to run a value added course "Food, Nutrition and Health Education" in the department.
- 16. To implement guidelines of the academic council.

Approved

Subject Expert 1 From parent university	Prof. P.K.Ratna Kumar, Dept. of Botany, Andhra University, Visakhapatnam	P.K.R.N.
Subject Expert 2 Other than parent University	Dr K Aruna, Lecturer in Microbiology, SRR & CVR Govt. Degree College, Vijayawada	Anne
Subject Expert 3 Other than parent University	D.Jayashree, Lecturer in Microbiology, ASD Govt. Degree College for women (A), Kakinada	D. Noyyer
Members in the department	Dr.K.Prakash Narayana Reddy, Lecturer in Microbiology, Dr VSK GDC(A)	burnast
	D.Rupa Devi, Guest Faculty in Microbiology, Dr VSK GDC(A)	Deploui
Chairman of BOS	Dr.Ch.Lalitha, HOD, Dept. of Microbiology Dr VSK GDC(A)	tièle

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 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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41	Y Ravanamina	FNHE 2022- 23/05
50	R. See charch	FNHE 2022 -23/06
6.	V. Neelakantami	FNHE 2022-23/07
41	M. Vikash	FNHE 2022 - 23/08
	N. Mani Lumas	FNHE 2022 - 23/09
	Ch. Homanth	FNHE 2022 - 23/10
A	L. Linki	FNHE 2022 - 23/ 11
100	S. Pavani	FNHE 2022-23/12
		FNHE 2022-23/13
115	R. Venu gopal D. Thansi san	FNHE 2022-23/14
	T. Demuly	FNHE 2022-23/15
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	B. Pavan Kumai	FNHE 2002 -23/17
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03	×	X	×	×	a	×	×	×	×	×	×	X
04	×	XX	×	×	×	×	a	×	×	×	a	×
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DEPARTMENT OF MICROBIOLOGY ADD-ON COURSE-FOOD, NUTRITION AND HEALTH EDUCATION

Award List 2022 - 23 batch

FNHE UNIQUE ID NO.	NAME OF THE STUDENT	GRADES	MARKS
FNHE 2022-23/01	D. H. S. TEJASWINI	0	92
FNHE 2022-23/02	E. REVATHI	0	94
FNHE 2022-23/03	M. GANGA BHAVANI	0	90
FNHE 2022-23/04	Y. RAVANAMMA	Α	76
FNHE 2022-23/05	R. SREE CHARITH	0	95
FNHE 2022-23/06	V. NEELAKANTAM	Α	75
FNHE 2022-23/07	M. VIKASH	Α	75
FNHE 2022-23/08	N. MANI KUMAR	0	85
FNHE 2022-23/09	CH. HEMANTH	Α	75
FNHE 2022-23/10	L. KHUSHI	Α	76
FNHE 2022-23/11	M. DURGA PRASAD	0	89
FNHE 2022-23/12	S. PAVANI	Α	76
FNHE 2022-23/13	R. VENU GOPAL	Α	75
FNHE 2022-23/14	D. JHANSI RANI	Α	76
FNHE 2022-23/15	T. DEMULLU	Α	77
FNHE 2022-23/16	B. SHEENA PRIYA	0	96
FNHE 2022-23/17	B. PAVAN KUMAR	Α	75
FNHE 2022-23/18	P. KARUNYA PRASHANTHI	Α	80
FNHE 2022-23/19	R. SRILEKA	0	97
FNHE 2022-23/20	B. TEJITHA	0	97
FNHE 2022-23/21	G. MANIKANTA	0	85
FNHE 2022-23/22	P. RAKESH	Α	75
FNHE 2022-23/23	D. LIKITHA	Α	76
FNHE 2022-23/24	A.DIVYA	Α	76
FNHE 2022-23/25	M. UMA	Α	76
FNHE 2022-23/26	K. RAMYA	Α	75
FNHE 2022-23/27	P. SHYAMLA	Α	75
FNHE 2022-23/28	M. PRASAD	Α	75
FNHE 2022-23/29	K. VAISHNAVI	Α	75
FNHE 2022-23/30	B. SONY DEEKSHITHA	0	97



Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED '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 Dhanasani Hima sai tejasaumi of Food Nytrition & Food Nytrition & Food Nytrition & Health Education with Regd No. FNHE 2022-23/01. Organized by the Department of Missociology in	
collaboration withgrade.	
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(NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE) MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH	
ADD-ON COURSE CERTIFICATE	
2012 - 2013	
This is to certify that Mr. / Miss E. Revalhi	
with Regd No.F.NHE 2022-23/02. Organized by the Department of	
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IQAC Coordinator

Academic Coordinator



Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED '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
with Regd No.F.N.H.E. 2022-23 / 03. Organized by the Department of
collaboration withduring year 20 12 - 20 13 . He / She has passed the course withgrade.
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Course coordinator Dr. V.S. Krishna Govt. Degree College(A)
Academic Coordinator
Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE) MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH
ADD-ON COURSE CERTIFICATE
2022 - 2023
This is to certify that Mr. / Miss Y. Ravanammaof Food Nutrition & MB.BC.Chas successfully completed the Add - on Course in
with Regd No.FNHE 2022-23 104. Organized by the Department of
collaboration withduring year 20 2.2 - 20 2.3 . He / She has passed the course with
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CI. Jan **IQAC Coordinator**

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

Academic Coordinator





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

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

Academic Coordinator





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

ADD-ON COURSE CERTIFICATE

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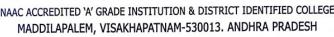
This is to certify that Mr. / Miss	M. Vikash	of
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IQAC Coordinator

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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)





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

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IQAC Coordinator

Academic Coordinator



(NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)



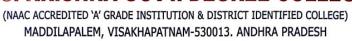


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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)
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collaboration withduring year 20 2.2 - 20 2.3 . He / She has passed the course with

Academic Coordinator



Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)



MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

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This is to certify that Mr. / Miss
Course Coordinator Coordinator
(NAAC ACCREDITED '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 B. Sheena priya of Food Nutrition & MB. BI. C. has successfully completed the Add - on Course in Health Education. With Regd No.F.N.H.E. 2022 - 23/16. Organized by the Department of Mixabardagy in collaboration with — during year 2022 - 2023. He / She has passed the course with
grade. (1.) of PRINCIPAL
Course Coordinate Dr. VS. Krichas Course College (A)

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

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

Academic Coordinator

Course Coordinator 2023





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

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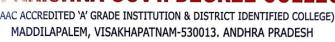
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Course coordinator Course Coordinator Course Coordinator Dr. V.S. Krishna Govt. Degree College(A)
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Academic Coordinator

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



(NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)





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Academic Coordinator



Or. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)



MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

Academic Coordinator

PRINCIPAL 20 7 2023 Dr. V.S. Krishna Govt. Degree College(A)



(NAAC ACCREDITED '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
Course Coordinator Course Coordinator Academic Coordinator Course Coordinator
(NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE) MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH
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Academic Coordinator

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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH

ADD-ON COURSE CERTIFICATE

2022 - **202**3

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This is to certify that Mr. / Miss	1
with Regd No. FNHE 2022-23/2.7. Organized by the Department of Microbiology in	
collaboration withduring year 20 22 - 20 23 . He / She has passed the course with Agrade.	ל
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Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE) MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH	
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This is to certify that Mr. / Miss	
MB.BT.Chas successfully completed the Add - on Course in Health thurstion	of .
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Academic Coordinator



Or. V.S. KRISHNA GOVT. DEGREE COLLEGE(A) (NAAC ACCREDITED 'A' GRADE INSTITUTION & DISTRICT IDENTIFIED COLLEGE)



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Course Coordinator Academic Coordinator Dr. V.S. Krishna Govt. Degree College(A)	
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Academic Coordinator

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