



Taranath Shikshana Samsthe
Laxmi Venkatesh Desai college, Raichur

Affiliated to Raichur University, Raichur & Re-accredited by NAAC with B Grade



Index for Add-On Course

Title: FOOD, NUTRITION AND HEALTH

Academic Year: 2021

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PRINCIPAL
L.V.D. College, RAICHUR-03.



TARANATH SHIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
(Affiliated to Gulbarga University, Kalaburagi Re-Accredited with "B" grade by NAAC)



Department of Zoology

Introducing

Add-on course

On

"FOOD, NUTRITION AND HEALTH "

For 30 Hours

Eligibility: XII Passed (BA/ B. Sc /BCA)

Course Start Date: 17-02-2022.

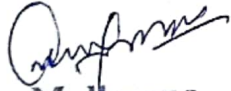
**A warm welcome to all the students
& staff**

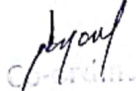
OBJECTIVE OF THE COURSE

- Understand the general nutritional biochemistry, source, and importance
- Make available facts on food hygiene, infections, transmission, and prevention; food spoilage

➤ LEARNING OUTCOMES

- Awareness on balanced diet, nutrient proportion, utility.
- Social awareness of health hazards.
- Appreciation of good food hygiene.


Dr. Malkanna
Assoc Prof & HOD
Department of Zoology


Internal Quality Assurance Cell (IQAC)
Laxmi Venkatesh Desai College, RAICHUR-03.



Vitamin and mineral deficiencies, particularly those of iron, vitamin A, and zinc, affect more than two billion people worldwide. Young children are highly vulnerable because of rapid growth and inadequate dietary practices. Multiple micronutrient powders (MNPs) are single-dose packets containing multiple vitamins and minerals in powder form, which are mixed into any semi-solid food for children six months of age or older


Dr. Venkatesh B. Devaru
PRINCIPAL
L.V.D. College, RAICHUR-03



①

Date: 27.09.2021

To
The Principal,
LVD College, Raichur.

From
Head of Department,
Department of Zoology

Respected Sir,

Sub: Permission to start an Add - On course.

With respect to the above sited subject I, the undersigned request you to grant permission to start an Add-on course titled "FOOD, NUTRITION AND HEALTH" to B.Sc I/II/III year students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

Yours Faithfully
[Signature]
HoD

Permitted
[Signature]
PRINCIPAL
L.V.D. College, RAICHUR-03.





TARANATH SHIKSHANA SAMSTHE



LAXMI VENKATESH DESAI COLLEGE, RAICHUR

(Affiliated to Gulbarga University, Kalaburagi Re-Accredited with "B" grade by NAAC)

Dr. Venkatesh B. Devaru, *M.Sc., Ph.d., MBA.*
PRINCIPAL

Office of the Principal
Ph: (08532)-240286, 240707
Fax: + 918532 240707
E-mail: lvdrer@gmail.com
Website: www.lvdcollege.com

BOARD OF STUDIES MEETING INVITATION Date: 02-11-2021

Respected Sir/ Madam,

Department of Zoology

Board of meeting which has been scheduled on 2nd November 2021 in the Department of Zoology at 10.30 AM. I would like to invite all for BOS meeting to give your valuable suggestion on curriculum and syllabus.

With regards,


HoD

Department of Zoology
Head of the Department Zoology





TARANATH SHIKSHANA SAMSTHE



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BOARD OF STUDIES MEETING-MINUTES

Date: 02-11-2021

Department of Zoology

Board of meeting which has been scheduled on 2nd November 2021 in the Department of Zoology at 10.30 AM and the discussion are recorded.

Agenda

1. To approve the panel of BOS Chairman, External and Internal members for Add-on course.
2. To revise the syllabus.

Meeting minutes

1. BOS board members reviewed the feedback analysis report of all the stalk holders.
2. The reports of Department Advisory Committee were taken into consideration for the BOS meeting.
3. Members reviewed and revised the curriculum and syllabus for Add-on course "FOOD, NUTRITION AND HEALTH".
4. The parameters considered for revision
 - a. Health hygiene.
 - b. Anemia.

A detail of the course revisions was done.

The above recommendations are submitted for the approval in the Academic council meeting.

HoD

Head of the Department Zoology



TARANATHI SHIKSHANA SAMSTHE



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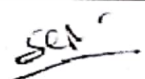


Date: 02-11-2021

ORDER

Sub: Meeting of Board of Studies members

A meeting of the following BOS constituted is hereby convened on 02-11-2021 at 10.30 AM in the Department of Zoology, L.V.D College, Raichur.

BOARD OF APPOINTMENT OF BOS MEMBERS FOR THE ADD-ON COURSE "FOOD, NUTRITION AND HEALTH"

Sl. No	Name of the Faculty	Designation	Sign
1	Dr. Somanathreddy C Patil PG Co-ordinator Department of Studies and Research In Zoology Govt. College (Autonomous) Kalaburagi- 585103	Chairman	 PG Co-ordinator Dept. of Studies and Research In Zoology Govt. College (Autonomous) Kalaburagi-585103
2	Mr. Basavaraj. K Assistant Professor Department of Zoology G. F.G College, Sindhanur	External Member	
3	Dr. Vijaylaxmi C Assistant Professor Department of Zoology L.V.D College, Raichur	Internal Member	

The Chairman and the members are requested to make it convenient to attend the BOS Meeting


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L.V.D. College, RAICHUR-03.





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Dr. Venkatesh B. Devaru, M.Sc., Ph.D., MBA.
PRINCIPAL

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E-mail: lvdrer@gmail.com
Website: www.lvdcollege.com

Date: 27-09-2021

To,

Dr. Somanathreddy C Patil
PG Co-ordinator
Department of Studies and Research in Zoology,
Govt. College (Autonomous),
Kalaburagi- 585103

Sub: Invitation for Board of Studies meeting as Chairman on 2nd November 2021 regarding.

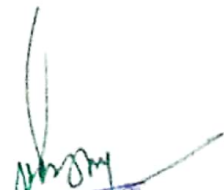
Respected sir,

With respect to the above cited subject, we take privilege in inviting you for the Board of Studies Meeting as Chairman for Add-on course "FOOD, NUTRITION AND HEALTH" which will be conducted on 2nd November 2021 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2021-22. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology which can help the student's community to shape themselves for their bright future. Hence, kindly accept and confirm your visit for attending the Board of Studies meeting. Kindly confirm your visit by informing to the Principal.

With Warm Regards


HoD

Head of the Department Zoology


PRINCIPAL
L.V.D. College, RAICHUR-03.





TARANATHI SHIKSHANA

LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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SAMSTHE

Dr. Venkatesh B. Devaru, *M.Sc., Ph.D., MBA.*
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E-mail: lvdrer@gmail.com
Website: www.lvdcollege.com

Date: 27-09-2021

To,

Mr. Basavaraj. K

Assistant Professor

Department of Zoology

G. F.G College, Sindhanur

Sub: Invitation for Board of Studies meeting as External Member on 2nd November 2021 regarding.

Respected sir,

With respect to the above cited subject, we take privilege in inviting you for the Board of Studies Meeting as External Member for Add-on course "FOOD, NUTRITION AND HEALTH" which will be conducted on 2nd November 2021 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2021-22. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology which can help the student's community to shape themselves for their bright future. Hence, kindly accept and confirm your visit for attending the Board of Studies meeting. Kindly confirm your visit by informing to the Principal.

With Warm Regards


HoD

Head of the Department, Zoology


PRINCIPAL
L.V.D. College, RAICHUR-03.



Date: 04-10-2021

To
The Principal,
L.V.D College,
Raichur.

Respected Sir,

Sub: Acceptance to be a Member of BOS.

With reference to the above-cited subject, I Mr. Basavaraj. K Assistant Professor Department of Zoology G. F.G College, Sindhanur received invitation letter to be a Member of BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your invitation as a BOS Member.

Thanking You,

Yours Sincerely

To
The Principal,
LVD College,
Raichur.

Date: 08-10-2021

Respected Sir,

Sub: Acceptance to be the chairman of BOS.

With reference to the above-cited subject, Dr. Somanathreddy C Patil PG Co-ordinator Department of Studies and Research in Zoology, Govt. College (Autonomous), Kalaburagi. I received invitation letter to be a Chairman of BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your invitation as a BOS Chairman.

Thanking You,

Yours Sincerely





TARANATH SHIKSHANA SAMSTHE



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DEPARTMENT OF ZOOLOGY

NOTICE

Based on the feedback analysis and Suggestion of students, college has introduced an Add-on course "FOOD, NUTRITION AND HEALTH" with the duration of 30 hrs. Since students are eligible to get enrolled. After the completion of the course the beneficiaries get good scope on employability. The total seats are restricted to 30 only.

Interested students register their name to the program co-coordinator on or before 05-11-2021.


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Date: 27 - 09 - 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add-on course on "FOOD, NUTRITION AND HEALTH" with the duration of 30 hours introduced in 2021. The said programme is apart from the existing course curriculum.

Head of the Department

Principal

PRINCIPAL
L.V.D. College, RAICHUR-03.



TARANTH SHIKSHANA SMASTE'S
LAXMI VENKATESH DESAI COLLEGE RAICHUR – 584103
(Affiliated to Gulbarga University, Gulbarga)
{Reaccredited with 'B' Grade by NAAC}



DEPARTMENT OF ZOOLOGY
FOOD, NUTRITION AND HEALTH
COURSE OVERVIEW

35hrs

Vitamin and mineral deficiencies, particularly those of iron, vitamin A, and zinc, affect more than two billion people worldwide. Young children are highly vulnerable because of rapid growth and inadequate dietary practices. Multiple micronutrient powders (MNPs) are single-dose packets containing multiple vitamins and minerals in powder form, which are mixed into any semi-solid food for children six months of age or older. The use of MNPs for home or point-of-use fortification of complementary foods has been proposed as an intervention for improving micronutrient intake in children under two years of age.

AIMS AND OBJECTIVES:

Provide a basic concept of food and nutrition concerning food components and nutrients, dietary needs based on different phases of growth and conditions.

- Understand the general nutritional biochemistry, source, and importance.
- Recognise major nutritional deficiency diseases, their causes, symptoms, treatment, prevention and government programs.
- Sensitise learners about lifestyle-related diseases causes and prevention; Social health problems, causes, treatment, and prevention,
- Make available facts on food hygiene, infections, transmission, and prevention; food spoilage.

ELIGIBILITY:

Eligibility of the course	: 10+2
Fees structure	: Unpaid course
Intake capacity	: Total numbers of seats 20
Duration of the course	: duration of the course will be four month.

5

SYLLABUS:

Unit 1: Basic concept of food and nutrition: **5hrs**
Food Components and food-nutrients, Concept of a balanced diet, nutrient needs and dietary pattern for various groups. adults, pregnant and nursing mothers, infants, school children, adolescents and elderly

Unit 2: Nutritional Biochemistry: **5hrs**
Carbohydrates. Lipids. Proteins- Definition, Classification, their dietary source and role
Vitamins- Fat-soluble and Water-soluble vitamins- their dietary source and importance
Minerals Iron, calcium, phosphorus, iodine, selenium and zinc: their biological functions

Unit 3: Health: **10hrs**
Introduction to health- Definition and concept of health, Major nutritional Deficiency diseases Protein Energy Malnutrition (kwashiorkor and marasmus), Vitamin A deficiency disorders, Iron deficiency disorders, Iodine deficiency disorders- their causes, symptoms, treatment, prevention and government programmes, if any. Life style related diseases- hypertension, diabetes mellitus, and obesity- their causes and prevention through dietary and lifestyle modifications, Social health problems- smoking, alcoholism, drug dependence and Acquired Immuno Deficiency Syndrome (AIDS) - their causes, treatment and prevention, Common ailments- cold, cough, and fevers, their causes and treatment

Unit 4: Food hygiene: **5hrs**
Potable water- sources and methods of purification at domestic level Food and Water borne infections: **Bacterial infection:** Cholera, typhoid fever, dysentery; **Viral infection:** Hepatitis, Poliomyelitis, Protozoan infection: amoebiasis, giardiasis; **Parasitic infection:** taeniasis and ascariasis their transmission, causative agent, sources of infection, symptoms and prevention Brief account of food spoilage: Causes of food spoilage and their preventive measures

PRACTICAL

10 hrs

1. To detect adulteration in a) Ghee b) Sugars c) Tea leaves and d) Turmeric
3. Estimation of Lactose in milk
4. Ascorbic acid estimation in food by titrimetry
5. Estimation of Calcium in foods by titrimetry
6. Study of the stored grain pests from slides/ photograph (*Sitophilus oryzae*, *Trogoderma granarium*, *Callosobruchus chinensis* and *Tribolium castaneum*): their identification, habitat and food sources, damage caused and control. Preparation of temporary mounts of the above stored grain pests.

OUTCOMES

- Awareness on balanced diet, nutrient proportion, utility.
- Ability to understand the causes of food disorders and remedial measures to be taken.
- Social awareness of health hazards.
- Appreciation of good food hygiene.

REFERENCE BOOKS:

1. Mudambi, SR and Rajagopal, MV (2018). Fundamentals of Foods, Nutrition and Diet Therapy; Sixth Ed; New Age International Publishers.
2. Bamji MS, Rao NP, and Reddy V.(2017) Text Book of Human Nutrition; Oxford & IBH Publishing Co. Pvt Ltd.. 4th edition
3. Srilakshmi B. Nutrition Science; 2002; New Age International (P) Ltd.
4. Srilakshmi B. Food Science; Fourth Ed; 2007; New Age International (P) Ltd.
5. Swaminathan M. Handbook of Foods and Nutrition; Fifth Ed; 1986; BAPPCO



TARANATH SHIKSHANA SMAS 'E
LAXMI VENKATESH DESAI COLLEGE RAICHUR – 584103
ADD ON COURSE TIME TABLE FOR B. Sc II, IV & VI SEMESTER

DEPARTMENT OF ZOOLOGY
 Semester time table for the year 2021-22

Days↓ Time →	9.30-10.20 AM	10.20-11.10 AM	11.10-12.00 PM	12.00-12.50 PM	12.50-1.40 PM	1.40-2.30 PM	2.30-3.20 PM	3.20-4.10 PM	4.10-5.10 PM
Monday									
Tuesday									
Wednesday									
Thursday									ADD ON COURSE
Friday									ADD ON COURSE
Saturday									ADD ON COURSE

[Signature]
 HEAD OF THE DEPARTMENT

[Signature]
 PRINCIPAL
 PRINCIPAL
 L.V.D. College, RAICHUR-03.

(H)


Laxmi Venkatesh Desai College, Raichur
 Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade
 Attendance Sheet: 2021-2022

Dates to be written.

Class:			Department of Zoology																																			
Sl.No	Register No	Name of the Student	Course title: FOOD, NUTRITION AND HEALTH																												Faculty Name: Dr. VIJAYALAXMI C							
			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	27	28	29	30	31					
			12/2/22	13/2/22	17/2/22	23/2/22	23/2/22	29/2/22	3/3/22	5/3/22	5/3/22	10/3/22	11/3/22	14/3/22	14/3/22	15/3/22	15/3/22	24/3/22	25/3/22	26/3/22	31/3/22	1/4/22	2/4/22	7/4/22	8/4/22	9/4/22	11/4/22	16/4/22	11/4/22	24/4/22	23/4/22	26/4/22	27/4/22	27/4/22	28/4/22	31		
1	2020UGS032	Shoba	P	P	P	P	P	A	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
2	2020UGS076	Anilkumar	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	2020UGS111	Saraswathi	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	2020UGS115	Kavya	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	2020UGS112	Vyasaraj Joshi	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	2020UGS135	Raghavendra	A	P	A	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	2020UGS145	Anusha	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	2020UGS154	Venkatesh	A	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	2020UGS177	Prashanth	P	A	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	2020UGS185	Renuka	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	2020UGS264	Santosh Kumatr	A	A	P	P	P	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	2020UGS300	Shilpa	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P


Signature of Faculty


Signature of HOD


Signature of Principal
PRINCIPAL
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Attendance Sheet: 2021-2022

Department of Zoology																																				
Class:			Course title: FOOD, NUTRITION AND HEALTH														Faculty Name: Dr. VIJAYALAXMI. C																			
Sl.No	Register No	Name of the Student	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	27	28	29	30	31			
1	S2184213	SHIVU KUMAR PATIL	17/2	18/2	19/2	20/2	21/2	22/2	3/3	4/3	5/3	14/3	11/3	12/3	13/3	14/3	24/3	25/3	26/3	27/3	1/4	2/4	3/4	4/4	5/4	6/4	10/4	11/4	12/4	21/4	22/4	23/4	24/4	25/4	50/4	
2	S2184221	REDDY RAGHAVENDRA	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	S2184222	AIFA MUSKAN	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	S2184227	ANUSHA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	S2184234	VENKATESH K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	S2184237	NAAZERIN	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	S2184238	SHRUTHI H S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	S2184247	ARSHIYA ZAREEN	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P
9	S2184252	MEGHANA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	S2184253	SHRUTHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
11	S2184254	MONIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
12	S2184261	T MALLIKARJUN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P


Signature of Faculty


Signature of HOD


Signature of Principal
PRINCIPAL
L.V.D. College, RAICHUR-03.



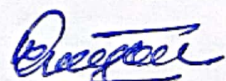
Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR


(Re-Accredited by NAAC with 'B' Grade)

Certificate

This is to Certify that Miss. / Mr. SHOBA.....
 of Bsc. III Sem 2020UGSO32..... has completed the Certificate Course in
FOOD, NUTRITION AND HEALTH.....
 Conducted by the Department of ZOOLOGY..... from
17.02.2022 to 03.04.2022.....


 Head of the Department
 Head of the Department Zoology




 PRINCIPAL
 L.V.D. College, RAICHUR-58
 Principal

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LAXMI VENKATESH DESAI COLLEGE, RAICHUR

Affiliated to Gulbarga University, Kalaburagi & Raichur University, Raichur

Re-Accredited by NAAC with B Grade

Department of Zoology

Report of Add-on course

Add-on course: **FOOD, NUTRITION AND HEALTH**

Duration: 30 Hours

Started on: 17-02-2022.

Completed on: {30-04-2022}

Name of the faculty: Dr. Vijayalaxmi. C

Total No of students admitted: 24

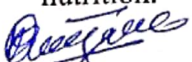
Total No of classes taken: 30

Total No of students benefited: 24

REPORT:

The aim of the course is to take aware the students about the nutritional value and identify the nutritional deficiencies and measures to be taken. Department of Zoology has offered this course for B.Sc. I, II, III students. ~~The course is conducted during the 17th Feb 2022 to 30th April 2022.~~
This course was conducted during the 17th Feb 2022 to 30th April 2022. During this period the lectures and practicals were conducted by resource faculties. 24 students have taken advantage of this course.

The survey report showed that there is an excess intake of carbohydrate and fat in their diet. A menu was planned to meet the nutritional requirements of people based on normal RDA value. After the completion of the course students gain the knowledge about the importance of nutrition.


HoD


Faculty


Principal
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(11)

Course Structure and Examination Scheme:

Course No:	Course Name	Hours (Classes)	Field visit	Internal Marks	External marks		Total marks
					Theory	Practical	
1	FOOD, NUTRITION AND HEALTH	35	10	10	60	20	100

TARANATH SHIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
 SUBJECT: ZOOLOGY
 INTERNAL ASSESSMENT
COURSE TITLE: FOOD, NUTRITION AND HEALTH

Time: 1 hours

Marks: 10

2X05=10

Q.1. Answer the following (any two)

1. Write the important characteristics of infants and adolescents.
2. Discuss the points to be considered in planning diets for school children. Explain the causes of obesity in school going children
3. Discuss the points to be considered in planning diets for school children. Explain the causes of obesity in school going children

JARANATH SRIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
SUBJECT: ZOOLOGY
THEORY EXAM
COURSE TITLE: FOOD, NUTRITION AND HEALTH

Time: 3 hours

Marks: 60
3X20=60

Q.1. Answer the following (any three)

1. Briefly discuss the nutritional requirement of 5 year old boy. What are the special factors to be considered regarding the nutritional management of that boy?
2. Explain in details about the functions of carbohydrates, proteins and fats in our body
3. Explain in detail the effect of deficiency of Vitamins.
4. Describe any one food borne disease with symptoms, causative organism, foods involved in transmission, methods of prevention. What are the advantages and disadvantages of using pesticides?
5. Describe in details the need for maintenance of hygiene of food. Describe the various techniques used for microbiological testing of food.

Marks: 20
2X10=20

JARANATH SRIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
SUBJECT: ZOOLOGY
PRACTICAL EXAM
COURSE TITLE: FOOD, NUTRITION AND HEALTH

Time: 1 hours

Marks: 20

Q. Answer the following

1. Identify the photograph of the given animals and comment. Any two
2. Field study report (visit to aquaculture centre) and viva on it

1X10=10

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TARANATH SHIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
 SUBJECT: ZOOLOGY
 MARKS LIST

COURSE TITLE: FOOD, NUTRITION AND HEALTH

Sl. No	Reg. No	Name of the Student	Internal Marks	External Marks		
				Theory	Practical	Total
1	S2184118	DEVIKA	09	46	28	83
2	S2184119	N. SHRAYANI	10	59	29	98
3	S2184126	R REKHA	08	56	24	88
4	S2184136	BIHARATHI M	07	52	24	83
5	S2184144	SHOBHAM	10	53	26	89
6	S2184158	CHAITANYA YADAV	10	58	29	97
7	S2184167	SUMEET AJEYVANGI	06	56	23	85
8	S2184180	VISHWANATH H MARADY	07	59	24	90
9	S2184182	ANIL KUMAR	09	54	26	89
10	S2184191	TRIVENI	08	53	24	85
11	S2184192	AMBIKA	06	59	29	94
12	S2184197	GIRISH	09	53	28	90
13	S2184213	SHIV KUMAR PATHI	07	54	26	87
14	S2184221	REDDY RAGHAVENDRA	09	58	23	90
15	S2184222	ALFA MUSKAN	08	59	24	91
16	S2184227	ANUSHA	07	54	26	87
17	S2184234	VENKATESH K	09	51	28	88
18	S2184237	NAAZERIN	10	56	29	95
19	S2184238	SHRUTHI S	09	54	30	93
20	S2184247	ARSHYA ZARIFIN	10	57	24	91
21	S2184252	MEGHANA	07	58	29	94
22	S2184253	SHRUTHI	10	59	28	97
23	S2184254	MONIKA	10	46	26	82
24	S2184261	T MALLIKARJUN	07	57	28	92

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