

Other Programmes

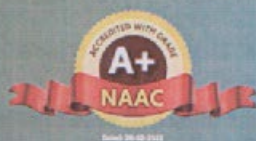
1.Orientation Programs

2.Bridge Courses

3.Skill development Course

4.Certificate Courses

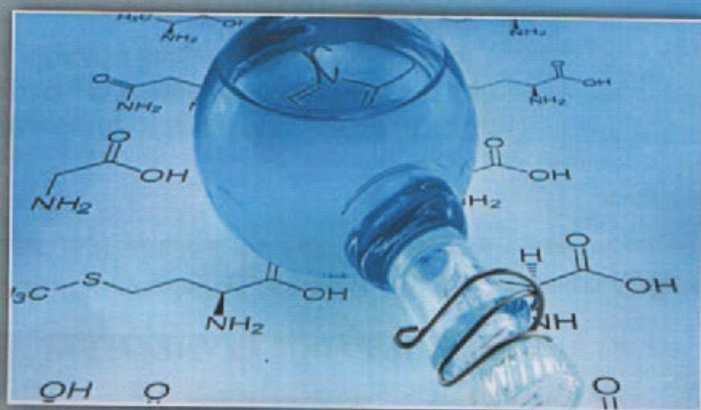
"OM NAMO VENKATESHAYA"
SGS ARTS COLLEGE, TTD, TIRUPATI



ISO AFFILIATED

ACADEMIC YEAR 2022-2023

Department of Chemistry



LAB ORIENTATION PROGRAM

Tirupati,

Date: 07-Dec-2022

From

The **HOD** of **CHEMISTRY**
S.G.S.Arts College,
Tirupati.

To

The **Principal**,
S.G.S.Arts College,
Tirupati.

Respected Sir,

Sub: - Permission for Conducting **LAB ORIENTATION PROGRAM** – Request – Regarding.

We are conducting **LAB ORIENTATION PROGRAM** for **I YEAR STUDENTS**.

Hence, I Request you to grant me permission **09-Dec-2022 FN** .

Thanking you Sir.

Yours Faithfully,

HOD

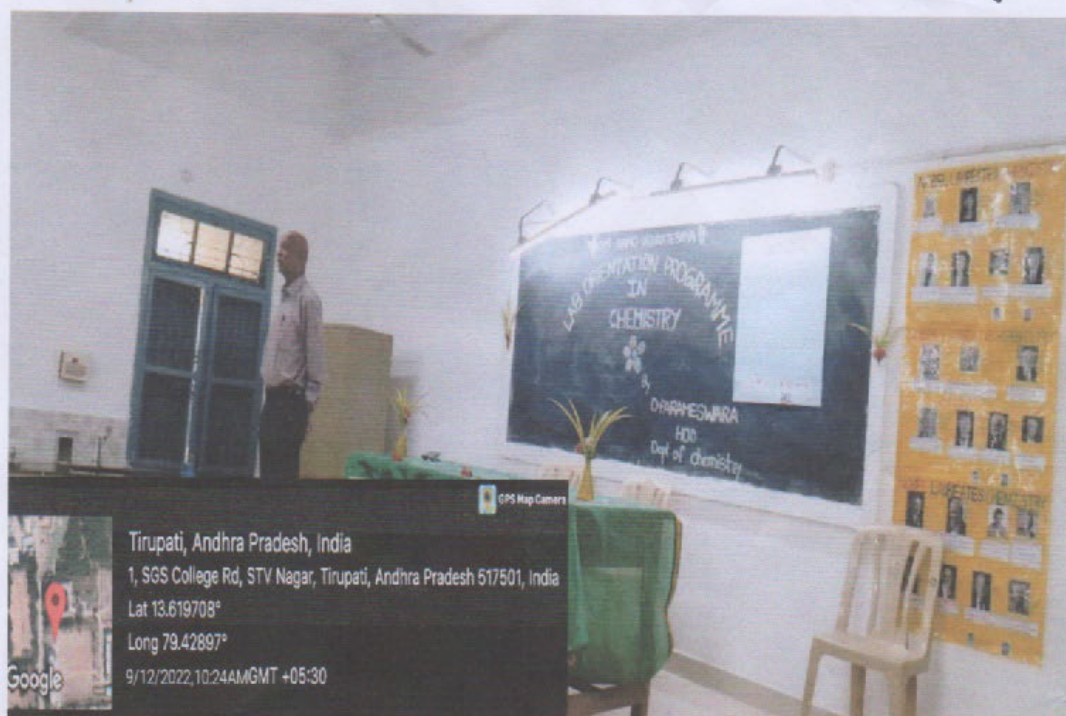
Copy to:

The Students.


HEAD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI



Lab Introduction to I year Students by
Sri. D. Parameswara, HOD. Dept. of chemistry.





Tirupati, Andhra Pradesh, भारत

19-8-65/A, SGS College Rd, Stv Nagar, Ward 20, Tirupati, Andhra Pradesh 517501, भारत

Lat 13.620011°

Long 79.427469°

9/12/2022 10.34 AM GMT +05:30



Tirupati , Andhrapradesh , India

19-8-65/A , Sgs arts college Rd, Stv nagar, ward 20, Tirupati, Andhra Pradesh, 517501, India

Lat 13.620011°

long 79.427469°

9/12/2022 10.32AM GMT+05.30

①

SGIS ARTS COLLEGE, TIRUCHANDUR ROAD, TIRUPATHI

DEPT. OF CHEMISTRY

STUDENT ATTENDANCE LIST FOR LABORATORY ORIENTATION PROGRAM

GROUP - MPC (EM)

S.NO	Roll. No.	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
1.	321001	ALANGADU, ROHITH.	A. Rohith
2.	321002	A. MALLIKARTJUNA	A. malikarjuna
3.	321003	A. TIRUPATHIRAO	A. Tirupathi Rao.
4.	321004	A. SRIRAM	A. srinidhi
5.	321005	A. SANJAY	A. Sanjay
6.	321006	B. VISHNU VARDHAN NAIDU	B. Vishnu Vardhan Naidu
7.	321007	B. VISHNU	B. Vishnu.
8.	321008	B. HANUMANTHU	B. Hanumanthu
9.	321009	C. HARI BABU	C. Hari babu
10.	321010	C. CHANDU YADAV	C. Chandu yadav
11.	321011	C. NAVEEN	A. srinidhi
12.	321012	D. SIVA KUMAR.	D. Sivakumar
13.	321013	D. DATHU.	D. Dattaraj
14.	321014	D. RAGHAVENDRA	D. Raghavendra
15.	321015	D. GOWITHAM KUMAR	A. srinidhi

GROUP - MPC (EM)

S.NO	ROLL NO	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
16.	321016	G. SHESHADRI	G. sheshadri
17.	321017	G. SABAREESH	Absent
18.	321018	J. MANOVIKAS	J. Manovikas.
19.	321019	K. SIVASANKAR	K. Siva Sankar
20.	321020	K. THIRUMALANATH	K. Thirumalanath
21.	321021	K. NIRANJAN	Absent
22.	321022	K. MAHESH	K. Mahesh
23.	321023	K. SUNKANNA	K. Sunkanna
24.	321024	L. JANARDHAN.	L. Janardhan.
25.	321025	M. RAMANANEYAREDDY	M. Ramananeya Reddy
26.	321026	M. VENKATESH.	Absent
27.	321027	M. TEJNATH.	M. Tejnath
28.	321028	M. SRINATH	M. Srinath
29.	321029	M. ANIL	M. ANIL
30.	321030	N. SEETHARAMIREDDY	Absent
31.	321031	N. LOKESWARA REDDY	N. Lokeswara Reddy
32.	321032	P. PAVANKUMAR	P. Pavan Kumar.
33.	321033	P. SUNIL BABU	P. Sunil babu
34.	321034	P. MALLIKARJUNA	P. mallikarjunu
35.	321035	P. MAHENDRA.	P. Mahendra

③

Group - MPC(EM)

SNO	ROLL NO.	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
36	321036	S. KRISHNA VAMSI	Abhant
37	321037	SK. Aslam Basha	Abhant
38	321038	S. TRIVEDI	S. Trivedi
39	321039	S. RAKESH	S. Rakesh
40	321040	S. GINANAPRAKASH	P. Gnanaprakash
41	321041	T. DEVA	T. Deva
42	321042	V. THAYANNA	V. Thayanna
43	321043	Y. MANOJ KUMAR	Y. Manoj Kumar
44	321044	Y. HARI KRISHNA	Y. Harikrishna
45	321045	Y. SUKADEV	
46	321046	Y. RAVINDRA PRASAD	Y. Ravindra Prasad

SGS ARTS COLLEGE TIRUCHANOUR ROAD, TIRUPATHI

DEPT. OF CHEMISTRY

STUDENT ATTENDANCE LIST FOR LABORATORY ORIENTATION PROGRAM

GROUP - MZC (EM)

S.No	Roll. No	NAME OF THE STUDENT	SIGNATURE OF STUDENT
1	321451	A. Nikhil	A. Nikhil
2	321452	B. Bhavya	B. Bhavya
3	321453	B. Ashok kumar	Abhishek
4	321454	B. Umesh	B. Umesh
5	321456	B. Siddesh	B. Siddesh
6	321457	B. Venkatesh	B. Venkatesh
7	321458	C. Siva	C. Siva
8	321459	D. Homanjali	D. Homanjali
9	321460	E. Bhargavi	E. Bhargavi
10	321461	G. Jahnavi	Abhishek
11	321462	G. Madhu	G. Madhu
12	321463	J. sashi preetham	Abhishek
13	321464	k. Ajay kumar	k. Ajay kumar
14	321465	k. Chiranjeevi	k. Chiranjeevi
15	321466	k. Tejaswini	Abhishek
16	321467	k. Lakshminarayana	k. Lakshminarayana
17	321468	k. kalyani	k. kalyani

SGS ARTS COLLEGE TIRUCHANODUR ROAD, TIRUPATHI

(5)

DEPT. OF CHEMISTRY

STUDENT ATTENDANCE LIST FOR LABORATORY ORIENTATION PROGRAM

Group - MZC

S.No	Roll No	NAME OF THE STUDENT	SIGNATURE OF STUDENT
18	321469	K. Upendra Reddy	K. Upendra Reddy
19	321470	K. Leelavathi	K. Leelavathi
20	321471	M. Pavankalyan	M. Pavankalyan
21	321472	M. Dinesh	M. Dinesh
22	321473	M. Gajendra Naik	M. Gajendra Naik
23	321474	M. Nithish koushik	M. Nithish koushik
24	321475	M. Baby priyanka.	M. Baby priyanka.
25	321476	N. Vishnu Vardhan	N. Vishnu Vardhan
26	321477	N. Renuka	N. Renuka
27	321478	N. Taanya priya	N. Taanya priya
28	321479	P. Abishai babu	P. Abishai Babu
29	321480	P. Amrutha Raj	P. Amrutha Raj
30	321481	P. Ramya	P. Ramya
31	321482	P. Mahesh	P. Mahesh
32	321483	P. Nynakshitha	P. Nynakshitha
33	321484	R. Vasavi	R. Vasavi
34	321485	R. Divya	R. Divya
35	321486	S. Seetha eesh	S. Seetha eesh
36	321487	S. Jyothi	S. Jyothi
37	321488	B. sonu prakash Naik	B. sonu prakash Naik
38	321489	T. Anil	T. Anil

SGS Arts college TIRUCHANUR Road, Tirupati
Dept of chemistry

(6)

Student Attendance List for Laboratory Orientation Programme

GROUP - BSC(CBZ)(E.M)

S.No	Roll Number	Name of the student	Signature.
1,	321351	A. Dinesh	A. Dinesh
2,	321352	B. Jagadesh Naik	B. Jagadesh Naik
3,	321353	C. veeranjineyulu	C. veeranjineyulu
4,	321354	C. Narendra	Abinet
5,	321355	E. Rajesh	E. Rajesh
6,	321356	G. N Lokesh	G. N. Lokesh
7,	321357	G. Jyosthna	G. Jyosthna
8,	321358	G. Karthik	G. Karthik
9,	321359	G. mahofar babu	Abinet
10,	321360	G. Hemanth Kumar	G. Hemanth Kumar
11,	321361	K. Hema Kumar	K. Hema Kumar
12,	321362	K. Siva	K. Siva
13,	321363	K. Raju	K. Raju
14,	321364	K. Sangeetha	K. Sangeetha
15,	321365	K. Tejaswini	K. Tejaswini
16,	321366	K. Anjali	K. Anjali
17,	321367	K. Hari Lingado.	K. Hari Lingado.

(7)

S.No	Roll Number	Name	Signature
18,	321368	K. Sudhakar	K. Sudhakar
19,	321369	K. Vinod Kumar	K. Vinod Kumar
20,	321370	M. Raju	M. Raju
21,	321371	M. Supriya	M. Supriya
22,	321372	M. Bhoomika	M. Bhoomika
23,	321373	M. Vaso Deva Reddy	M. Vaso Deva Reddy
24,	321374	P. Vanisree	P. Vanisree
25,	321375	P. Laya Lavanya	P. Lavanya
26,	321376	S. Ahmad Ali	S. Ahmad Ali
27,	321377	H. Lakshmi Balaji	H. Lakshmi Balaji
28,	321378	T. Bhagya sri	T. Bhagya sri
29,	321379	T. Teja	T. Teja
30,	321380	M. Varsha	M. Varsha
31,	321381	Y. Prameela	Y. Prameela
32,	321382	Y. Ganga devi.	Y. Ganga devi

SGS ARTS COLLEGE TIRUCHANDUR ROAD, TIRUPATI,
DEPT. OF CHEMISTRY

STUDENT ATTENDANCE LIST FOR LABORATORY
ORIENTATION PROGRAM

GROUP - BBC (EM)			
S.NO	Roll No.	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
1.	321401	B. Sreelatha	B. Sreelatha
2.	321402	B. Sunil Naik	B. Sunil
3.	321403	B. Reddy Prasanth Sai Prasad	B. Reddy Prasanth
4.	321404	B. Sai Prasad	B. Sai Prasad
5.	321405	B. Aravind	B. Aravind
6.	321406	D. Anitha	D. Anitha
7.	321407	M. Devendra Naik	Abundant
8.	321408	G. Snehalatha Reddy	G. Sneha.
9.	321409.	G. Naga babu	G. Nagababu
10.	321410	G. Jokes	G. Jokes
11.	321411	G. Jagadeesh	G. Jagadeesh.
12.	321412	J. Suguna kar	J. Sugunakar
13.	321413	J. Teja sree	J. Tejasree
14.	321414	K. Sri kala	K. Sri kala
15.	321415	L. Jaya Prakash	Abundant
16.	321416	M. Bala Gurajah	M. Balan
17.	321417	M. Lokesh babu	M. Lokesh Babu

(9)

S.No.	Roll.No.	Name of the student	Sign of the student
18.	321418	M. Tejaswi	M. Tejaswi
19.	321419	M. Loukya	M. Loukya
20.	321420	M. Teeran	M. Teeran
21.	321421	M. Jahnvi	M. Jahnvi
22.	321422	N.V. Hari keerthi	N.V. Harikeerthi
23.	321423	P. Mukesh Rushi	P. Mukesh Rushi
24.	321424	P. Yaswanth	Abhishek
25.	321425	P. Chandramouli	P. Chandramouli
26.	321426	P. Venkateswara	Abhishek
27.	321427	P. Vinod Kumar	P. Vinod Kumar
28.	321428	P. Poojitha	P. Poojitha
29.	321429	S. Sudheer	S. Sudheer
30.	321430	T. Chandrasekhar	T. Chandrasekhar
31.	321431	Y. Rajendra Prasad	Abhishek
32.	321432	V. Venkata Vinay Kumar	V. Venkata Vinay Kumar
33.	321433	Y. Sree vaishnavi	Y. Sreevaishnavi
34.	321434	Y. Suresh	Y. Suresh

LAB ORIENTATION PROGRAM (Date:09-Dec -2022)

Chemistry Department Conducted LAB ORIENTATION PROGRAM in
laboratory:- 1 for 1 YEAR BBC,MZC,CBZ & MPC Students.

S.G.S.ARTS COLLEGE, TTD, TIRUPATI
DEPARTMENT OF CHEMISTRY
EVENT ORGANISED REPORT: (2022-2023)

1	Name of the Department	CHEMISTRY
2	Name of Event Organized	LAB ORIENTATION PROGRAM
4	Name of Coordinator of Event	Sri .D.PARAMESWARA
5	Class of the Participants	1 YEAR BBC,MZC,CBZ & MPC
6	No. of Participants	155
7	OBJECTIVES	<ul style="list-style-type: none">• TO BRING AWARENESS ABOUT GLASS WARE,EQUIPMENT,CHEMICALS & PROCEDURES INVOLVED IN LABORATORY• TO FOLLOW SAFTY PRECAUTIONS WHILE PERFORMING PRACTICALS
8	OUTCOMES	<ul style="list-style-type: none">• STUDENTS GOT AWARENESS ON HOW TO HANDLE GLASS WAR& LABORATORY EQUIPMENT.


HEAD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI

Bridge Courses

SAI GOVINDARAJA SWAMY ARTS COLLEGE, TTD, TIRUPATI

ESTD : 1969

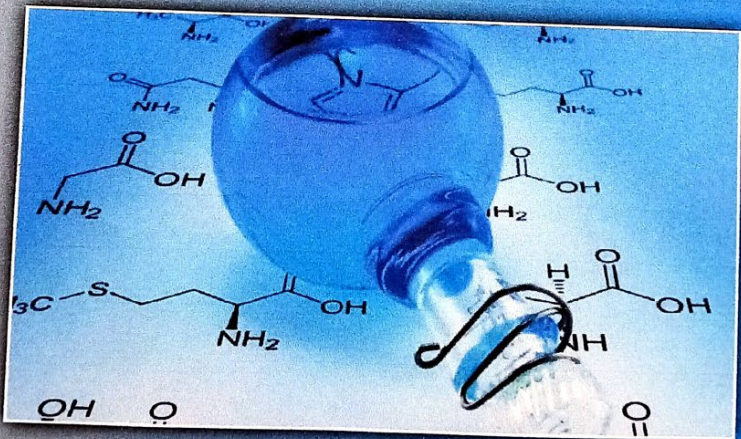
SAI GOVINDARAJA SWAMY ARTS COLLEGE
T.T.D. TIRUPATI
सत्यमेव जयते

ACCREDITED WITH GRAD
A+
NAAC

ISO AFFILIATED

**ACADEMIC YEAR
2022-2023**

Department of Chemistry



BRIDGE COURSE

ACADEMIC YEAR: 2022-2023
SGS Arts College, Tirupati
Department of Chemistry



Circular

First-year Life Sciences students who studied vocational courses at the intermediate level are informed to attend the bridge course which will be held at seminar hall, SGS Degree College, Tirupati from 14-11-2022 to 19-11-2022.

Head,
Department of Chemistry


HEAD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI

HEAD

Tirupathi
09.11.2022

From
Sri. D. Parameswara,
HOD of Chemistry,
SGS Arts College,
Tirupathi.

To
The Principal,
SGS Arts College,
Tirupathi.

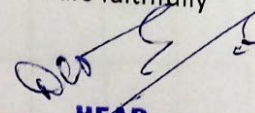
Sir,

Sub:- Permission for conducting Chemistry Bridge course to students of
first year degree – request – Regarding.
&&&&

Kindly permit the Department of Chemistry to conduct Bridge
Course to the students of first year degree who studied Vocational Course in
intermediate for one week i.e. from 14-11-2022 to 19-11-2022. Time table and
syllabus are enclosed.

Thanking you sir

Yours faithfully


**HEAD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI**



ACADEMIC YEAR:2022-2023
Department of Chemistry
Bridge Course Student Attendance List



S.No	Name of the student	Course Studied in Intermediate	Programme Joined in UG	14-11-2022	15-11-2022	16-11-2022	17-11-2022	18-11-2022	19-11-2022
1	K.Dinesh	MLT (Medical Lab Technician Course)	BBC	X	X	X	X	X	X
2	S.Hanuk	Agl.Polytechnic	BBC	X	X	a	X	X	X
3	K.Sachin	MLT (Medical Lab Technician Course)	BBC	X	X	X	X	X	X
4	M.Sasanka	Agl.Polytechnic	BBC	X	X	X	X	X	X
5	C.Venkatalak	MLT (Medical Lab Technician Course)	BBC	X	X	X	X	X	X
6	N.Dinesh kun	MLT (Medical Lab Technician Course)	MZC	X	X	X	X	a	X
7	P.PavankuMA	MLT (Medical Lab Technician Course)	MZC	X	X	X	X	X	X

W A KP P. W A

DU
HEAD



ACADEMIC YEAR:2022-2023
Bridge Course in Chemistry
Syllabus



S.No	Subject	Syllabus
1	Inorganic Chemistry	Electronic Configuration of elements Classification of elements in to s,p,d,f blocks. Periodic properties
2	Physical Chemistry	States of matter- Gaseous state,solid state Solutions Ionic Equilibria
3	Organic Chemistry	Nomenclature of Organic Compounds Types of Reactions Types of Reagents Bond polarising Effects Reaction Intermediates
4	General Chemistry	Stereo Chemistry Colloids Adsorption Analytical Chemistry



ACADEMIC YEAR:2022-2023
Bridge Course in Chemistry
Students Marks List



S.No	Name of the student	Marks
1	K.Dinesh	18
2	S.Hanuk	16
3	K.Sachin	17
4	M.Sasanka	17
5	C.Venkatalakshmi	18
6	N.Dinesh kumar	13
7	P.PavankuMAR	15
8	S.Yedukondalu	14

K. Ravi
SIGNATURE



ACADEMIC YEAR:2022-2023
Bridge Course-Summary



Name of the programme	Bridge course in chemistry for vocational students
Duration of Course	One Week
Date	14-11-2022 to 19-11-2022
Venue	Seminar Hall

S.No	Subject name	Faculty Name	
1	Inorganic Chemistry	P Suguna	4
2	Physical Chemistry	V Venkata Lakshmi	4
3	Organic Chemistry	P.Srujana	4
4	General Chemistry	K. Revathi	4

ACADEMIC YEAR:2022-2023
Bridge Course-Summary



Name of the programme	Bridge course in chemistry for vocational students
Duration of Course	One Week
Date	14-11-2022 to 19-11-2022
Venue	Seminar Hall

S.No	Subject name	Faculty Name	
1	Inorganic Chemistry	P Suguna	4
2	Physical Chemistry	V Venkata Lakshmi	4
3	Organic Chemistry	P.Srujana	4
4	General Chemistry	K. Revathi	4



ACADEMIC YEAR:2022-2023
Bridge Course in Chemistry
Students List



S.No	Name of the student	Signature
1	K.Dinesh	K. Dinesh
2	S.Hanuk	S. Hanuk
3	K.Sachin	K. Sachin
4	M.Sasanka	M. Sasanka
5	C.Venkatalakshmi	C. Venkatalakshmi
6	N.Dinesh kumar	N. Dinesh kumar
7	P.Pavankumar	P. Pavankumar
8	S.Yedukondalu	S. Yedukondalu

SIGNATURE



ACADEMIC YEAR:2022-2023
Department of Chemistry
Bridge Course Time Table



Day	10AM-11AM	11AM-12NOON	12NOON-1PM	2PM-3PM	3PM-4PM
Monday	Inorganic	Physical	Organic	General	Q&A Session
Tuesday	Physical	Organic	General	Inorganic	
Wednesday	Organic	General	Inorganic	Physical	
Thursday	General	Inorganic	Physical	Organic	
Friday	Inorganic	Physical	Organic	General	
Saturday	Physical	Organic	General	Inorganic	

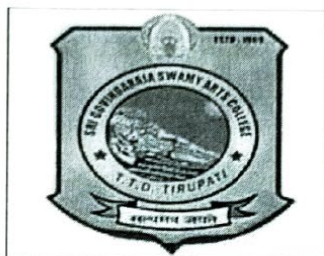
BRIDGE COURSE



Bride course

Department of Zoology

OM NAMO VENKATESAYA
SRI GOVINDARAJA SWAMY ARTS COLLEGE-TIRUPATI
TIRUMALA TIRUPATI DEVASTHANAMS
(AFFILIATED TO S.V. UNIVERSITY, TIRUPATI)
Estd : 1969



SGS ARTS COLLEGE
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE
ACADAMIC YEAR 2022-2023


HEAD
Department of Zoology
S.G.S. Arts College
TIRUPATI

DETAILS OF COURSE

Name of the certificate course : MILK ADULTERATION

Batch : 1 & 2

Timing : Theory 04:00 to 05:00 pm
Practicals 09:00 to 10:00 am

No. Of students/Dept/year/Course Durat : 35/ZOOLOGY/2022/40 Hours

Venue : Theory : Room No: 120,121
: Practicals :ZOOLOGY LAB

Pre requisite : Students having Zoology as one of the subject

Eligible groups : MZC & CBZ

Trainers : Sri. S.N.Shameer, Dr.B.Ravi

Certificate : Yes

Course Coordinator : Sri.S.N.Shameer


HEAD
Department of Zoology
S.G.S. Arts College
TIRUPATI-517 501

Permission Letter
SGSCA Dept.of Zoology /HOD/Certificate course

Date:19-11-2022

From,

HOD,
Department of Zoology,
S.G.S Art's College,
Tirupati.

To,
The Principal,
S.G.S Art's College,
Tirupati.

Respected sir,

Sub: Request for permission to conduct certificate course in MILK ADULTERATION - Regarding

We have planned to conduct a forty hours certificate course MILK ADULTERATION two batches of second year students Life Science group from 22-11-2022 to 23-12-2022 . Therefore kindly permit us.so conduct this certificate course.

Thanking you,

Your Faithfully,



HEAD
Department of Zoology
S.G.S. Arts College
TIRUPATI-517 501

NOTICE

SGSAC/Dept.of Zoology/HOD/Certificate Course

All the students of Batch 1 and Batch 2 who are enrolled for
Certificate Course in MILK ADULTERATION are hereby informed that the
Final Examination will be held on 25-12-2022.

Date:23-12-2022

HOD


HEAD
Department of Zoology
S.G.S. Arts College
TIRUPATI-517 501

NOTICE


SGSAC/Dept. of Zoology/HOD/Certificate Course

It is to inform all the Second Year students of Life Science groups that we are going to conduct a Certificate Course. The details of the course offered are as followed.

Course name	MILK ADULTERATION
Course date & duration	22/Nov/22 to 23/Dec/22:40 hours. 4 weeks
Timings	Batch 1: Theory:9:00AMto10:00Am Practical:4:00PMto5:00PM Batch 2: Theory:4:00PMto5:00PM Practical:9:00AMto10:00AM
Course Mentors	Batch 1:S.N.Shameer Batch 2:Dr.B.Ravi

Students who are interested to join the course can contact the Coordinator of Certificate Course Sri.S.N.Shameer for further details of course content, study material and prerequisite of the course.

HOD


Course Coordinator
— HEAD
Department of Zoology
S.G.S. Arts College
TIRUPATI-517 501

TirumalaTirupatiDevasthanam

SGS ARTS COLLEGE ,Tirupati

Department of Zoology

Syllabus of certificate course in milk adulteration

Course Code no:101:Introduction to Milk and Milk Products

Course Objective:

- 1.To understand the introduction and composition of milk.
- 2.To provide hands on training about milk and milk detection methods.,

Course learning outcomes:

After successful completion of the course, students will be able to:

- 1.This course provides knowledge on various types of milk and milk products.
- 2.It provides knowledge to students on various tests to detect quality of milk and milk products

Unit I :

DAIRY CHEMISTRY : Milk Composition – Physico Chemical properties of milk - Animal, Feed and Environmental factors influencing the composition of milk – Milk lipids, proteins, Sugar and their biosynthesis, classes and significance – Minerals and Vitamins in milk – Thermal stability of Milk – Freezing Point depression of Milk.

Unit II :

DAIRY PROCESSING AND TECHNOLOGY: Dairy processing – Milk collection, transportation & Grading of milk – Standardization – Pasteurization – homogenization of milk – packaging of milk – cleaning and sanitation – Cleaning in Place (CIP) System of cleaning agents – Dairy technology – Manufacture of Fat rich dairy products cream – butter – ghee – Ice cream – concentrated and dried milk products – cheese and other fermented products – manufacture of Dahi – Yoghurt – Shrikand – Indigenous milk products – Effective utilization of dairy by – products.

Unit III :

QUALITY ANALYSIS OF MILK : Sensory analysis of milk – Determination of Specific gravity, fat , SNF, TS, Acidity & pH in milk and their significance and interpretation – Determination and significance of MBR Test – SPC – Phosphatase activity in milk – common adulterants in milk and their detection techniques – Advanced analytical techniques in milk and milk products.

Unit IV :

STANDARDS FOR MILK AND MILK PRODUCTS : Definition of Milk and Milk Products under the PFA Rules , 1955/Food Safety Act 2006 – Classes of Milk – Legal / Statutory standards of milk and milk products – bacteriological standards for milk and milk products – BIS, PFA standards – Maximum Permissible limits of Aflatoxin, Pesticides, Antibiotic residues and Heavy metals in Milk and Milk Products – Storage of Milk and Milk Products – Labeling of Milk and Milk products.

REFERENCE BOOKS :

- 1.Dairy science: Petersen (W.E) Publisher – Lippincott & Company
- 2.Outlines of Dairy Technology – Sukumar (De) – Oxford University press
- 3.Indian Dairy products – Rangappa (K.S.) & Achary (KT) – Asia Publishing House.
- 4.The technology of milk processing – Ananthakrishnan, C.P., Khan, A.Q. and Padmanabhan, P.N.Shri Lakshmi publications.
- 5.Dairy India 2007, Sixth edition 6. Economic of Milk Production – BharatiPratimaAcharya Publishers.

HEAD
Department of Zoology
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TIRUPATI-517 501

SRI GOVINDARAJA SWAMY ARTS COLLEGE, TIRUPATI

ADD ON COURSE : MILK ADULTERATION

Student Name list

Batch-I

S.No	Roll no	Name of the student	CLASS
1	321351	B. Jagadeesh	II CBZ
2	321355	E. Ramesh	II CBZ
3	321357	G. Jyoshna	II CBZ
4	321358	G. Karthik	II CBZ
5	321359	G. Manohar Babu	II CBZ
6	321361	K. Hema Kumar	II CBZ
7	321363	K. Raju	II CBZ
8	321364	K. Sangeetha	II CBZ
9	321365	K. Tejaswini	II CBZ
10	321367	K. Hari Lingadu	II CBZ
11	321369	K. Vinod Kumar	II CBZ
12	321370	M. Raju	II CBZ
13	321371	M. Supriya	II CBZ
14	321372	M. Bhoomika	II CBZ
15	321373	M. Vasu Deva Reddy	II CBZ
16	321374	P. Vani sree	II CBZ
17	321375	P. Lavanya	II CBZ
18	321376	S. Ahmad Ali	II CBZ
19	321379	T. Teja	II CBZ
20	321380	M. Varsha	II CBZ
21	321381	Y. Prameela	II CBZ
22	321382	Y. Ganga Devi	II CBZ



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SRI GOVINDARAJA SWAMY ARTS COLLEGE, TIRUPATI

ADD ON COURSE : MILK ADULTERATION

Student Name list

Batch-II

S.No.	Roll No.	Name of the Student	Class
1	321451	A. Nikhil	II MZC
2	321452	B. Bhavya	II MZC
3	321454	B. Umesh	II MZC
4	321455	B. Siddesh	II MZC
5	321457	B. Venkatesh	II MZC
6	321458	C. Siva	II MZC
7	321459	D. Homanjali	II MZC
8	321460	E. Bhargavi	II MZC
9	321462	G. Madhu	II MZC
10	321464	K. Ajay Kumar	II MZC
11	321465	K.Chiranjeevi	II MZC
12	321467	K. Lakshmi Narayana	II MZC
13	321469	K.Upendra Reddy	II MZC
14	321471	M.Pavan Kalyan	II MZC
15	321472	M. Dinesh	II MZC
16	321473	M.Gajendra Naik	II MZC
17	321474	M. Nithish koushik	II MZC
18	321475	M.Baby Priyanka	II MZC
19	321476	N.Vishnu vardhan	II MZC
20	321479	P.Abhishai Babu	II MZC
21	321480	P.Amruth Raj	II MZC
22	321481	P.Ramya	II MZC
23	321482	P.Mahesh	II MZC
24	321483	P.V.Nynakshitha	II MZC
25	321484	R. Vasavi	II MZC
26	321485	R.Divya	II MZC
27	321486	S.Sathish	II MZC
28	321488	B.Sonu Prakash naik	II MZC
29	321489	T.Anil	II MZC
30	321490	T.Nivedha	II MZC
31	321491	T.P. Nikhil	II MZC
32	321492	V.C. Triveni	II MZC


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SRI GOVINDARAJA SWAMY ARTS COLLEGE, TIRUPATI

ADD ON COURSE MILK ADULTERATION

Bsc.CBZ

Batch-I

S.No	Roll no	Name of the student	SIGNATURE
1	321351	B. Jagadeesh Naick	B. Jagadeesh Naick
2	321355	E. Rajesh	E. Rajesh
3	321357	G. Jyoshna	G. Jyoshna
4	321358	G. Karthik	G. Karthik
5	321359	G. Manohar Babu	G. Manohar Babu
6	321361	K. Hema Kumar	K. Hema Kumar
7	321363	K. Raju	K. Raju
8	321364	K. Sangeetha	K. Sangeetha
9	321365	K. Tejaswini	K. Tejaswini
10	321367	K. Hari Lingadu	K. Hari Lingadu
11	321369	K. Vinod Kumar	K. Vinod Kumar
12	321370	M. Raju	M. Raju
13	321371	M. Supriya	M. Supriya
14	321372	M. Bhoomika	M. Bhoomika
15	321373	M. Vasu Deva Reddy	M. Vasu Deva Reddy
16	321374	P. Vani sree	P. Vani sree
17	321375	P. Lavanya	P. Lavanya
18	321376	S. Ahmad Ali	S. Ahmad Ali
19	321379	T. Teja	T. Teja
20	321380	M. Varsha	M. Varsha
21	321381	Y. Prameela	Y. Prameela
22	321382	Y. Ganga Devi	Y. Ganga Devi



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SRI GOVINDARAJA SWAMY ARTS COLLEGE, TIRUPATI

ADD ON COURSE MILK ADULTERATION

Bsc.MZC

Batch-II

S.No	Roll no	Name of the student	SIGNATURE
1	321451	A.Nikhil	A. Nikhil
2	321452	B. Bhavya	B. Bhavya
3	321454	B. Umesh	B. Umesh
4	321455	B. Siddesh	B. Siddesh
5	321457	B. Venkatesh	B. Venkatesh
6	321458	C. Siva	C. Siva
7	321459	D. Homanjali	D. Homanjali
8	321460	E. Bhargavi	E. Bhargavi
9	321462	G. Madhu	G. Madhu
10	321464	K. Ajay Kumar	K. Ajay Kumar
11	321465	K.Chiranjeevi	K. Chiranjeevi
12	321467	K. Lakshmi Narayana	K. Lakshmi Narayana
13	321469	K.Upendra Reddy	K. Upendra Reddy
14	321471	M.Pavan Kalyan	M. Pavan Kalyan
15	321472	M.Dinesh	M. Dinesh
16	321473	M.Gajendra Naik	M. GAJENDRA NAIK
17	321474	M. Nithish koushik	M. Nithish koushik
18	321475	M.Baby Priyanka	M. Baby Priyanka
19	321476	N.Vishnu vardhan	N. Vishnu Vardhan
20	321479	P.Abhisai Babu	P. Abhisai Babu
21	321480	P.Amruth Raj	P. Amrutha Raj
22	321481	P.Ramya	P. Ramya
23	321482	P.Mahesh	P. Mahesh
24	321483	P.V.Nynakshitha	P. V. Nynakshitha
25	321484	R. Vasavi	R. Vasavi
26	321485	R.Divya	R. Divya
27	321486	S.Sathish	S. Sathish
28	321488	B.Sonu Prakash naik	B. Sonu Prakash naik
29	321489	T.Anil	T. Anil
30	321490	T.Nivedha	T. Nivedha
31	321491	T.P. Nikhil	T.P. Nikhil
32	321492	V.C. Triveni	V.C. Triveni


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S.G.S ARTS COLLEGE, TIRUPATI
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN MILK ADULTERATION
ACADEMIC YEAR 2022-2023

BATCH TIME TABLE

DAY/ TIME	THEORY	PRACTICAL
	09:00-10AM	04:00-05PM
MONDAY	SNS	BR
TUESDAY	SNS	BR
WEDNESDAY	SNS	BR
THURSDAY	SNS	BR
FRIDAY	SNS	BR
SATURDAY	SNS	BR


S.N.Shameer
HOD

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S.G.S ARTS COLLEGE, TIRUPATI
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN MILK ADULTERATION
ACADEMIC YEAR 2022-2023

REPORT OF COURSE:

- 1.Name OF the COURSE. :MILK ADULTERATION
2Name of the course coordinator. :Sri.S.N.Shameer
3.No of students Admitted. :54(32 per batch – I , 22 per batch - II)
4.Faculty members :02

S.No.	Name of the teacher	Batch	No. of Hours [classes] Engaged	
			Theory	Practical
1	Sri.S.N.Shameer	1	10	10
2	Dr.B.Ravi	2	10	10

- 5.No.of students appeared for exam : Batch 1: 22
Batch 2: 32
6.No.of students passed. : Batch 1: 22
Batch 2 : 32
7.Percentage of results. : 100%
8.Date of theory Examination. :26-12-2022
9.Name of examiners. :Batch 1:Sri.S.N.Shameer
Batch 2: Dr.B.Ravi
10.Date of Decleration of results. :28-12-2022

HOD

Signature of course coordinator

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**SGS ARTS COLLEGE, TTD, TIRUPATI,
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN MILK ADULTERATION
STUDENTS ATTENDANCE LIST BATCH - I THEORY 09 to 10am**

S. No	Roll No	Name of the student	22/11/2022	23/11/2022	24/11/2022	25/11/2022	26/11/2022	28/11/2022	29/11/2022	30/11/2022	1/12/2022	2/12/2022	3/12/2022	5/12/2022	6/12/2022	7/12/2022	8/12/2022	9/12/2022	10/12/2022	12/12/2022	13/12/2022	14/12/2022	15/12/2022	16/12/2022	17/12/2022	19/12/2022	20/12/2022	21/12/2022	22/12/2022	23/12/2022
1	321351	B. Jagadeesh	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
2	321355	E. Ramesh	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	321357	G. Jyoshna	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	321358	G. Karthik	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	321359	G. Manohar Babu	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	321361	K. Hema Kumar	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	321363	K. Raju	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	321364	K. Sangeetha	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	321365	K. Tejaswini	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	321367	K. Hari Lingadu	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	321369	K. Vinod Kumar	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
12	321370	M. Raju	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
13	321371	M. Supriya	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
14	321372	M. Bhoomika	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
15	321373	M. Vasu Deva Reddy	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
16	321374	P. Vani sree	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
17	321375	P. Lavanya	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
18	321376	S. Ahmad Ali	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
19	321379	T. Teja	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
20	321380	M. Varsha	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
21	321381	Y. Prameela	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
22	321382	Y. Ganga Devi	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

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Department of Zoology
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**SGS ARTS COLLEGE, TTD, TIRUPATI,
DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE IN MILK ADULTERATION
STUDENTS ATTENDANCE LIST BATCH -II THEORY 09 to 10am**

S. No	Roll No.	Name of the Student	22/11/2022	23/11/2022	24/11/2022	25/11/2022	26/11/2022	28/11/2022	29/11/2022	30/11/2022	1/12/2022	2/12/2022	3/12/2022	5/12/2022	6/12/2022	7/12/2022	8/12/2022	10/12/2022	12/12/2022	15/12/2022	16/12/2022	17/12/2022	18/12/2022	19/12/2022	20/12/2022	21/12/2022	22/12/2022
1.	321451	A. Nikhil	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
2.	321452	B. Bhavya	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.	321454	B. Umesh	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.	321455	B. Siddesh	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.	321457	B. Venkatesh	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.	321458	C. Siva	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.	321459	D. Homanjali	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.	321460	E. Bhargavi	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.	321462	G. Madhu	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.	321464	K. Ajay Kumar	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.	321465	K. Chiranjeevi	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.	321467	K. Lakshmi Narayana	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
13.	321469	K. Upendra Reddy	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
14.	321471	M. Pavan Kalyan	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
15.	321472	M. Dinesh	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
16.	321473	M. Gajendra Naik	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
17.	321474	M. Nithish koushik	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
18.	321475	M. Baby Priyanka	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
19.	321476	N. Vishnu vardhan	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 Teacher
S. G. S. Arts College
Tirupati

CIRCULAR

It is to inform all the faculty of Department of Zoology to attend staff meeting at 11:00 AM in the HOD chamber to discuss the conduct of certificate courses for the academic year 2022-23.

Faculty Members Attended:

HOD	Name of the Faculty	Signature
Sri. S.N.Shameer	1. Dr B.Ravi	B. Ravi

Agenda: Certificate courses to be conducted for the Academic Year 2022-2023

All the staff members of the department discussed the agenda. The following resolutions were passed unanimously.

☑ It was decided to conduct a certificate course on MILK ADULTERATION to the Final year students of Life Sciences groups in the month of November to December (22/11/2022 to 23/12/2022) .

☑ HOD offered vote of thanks.

Faculty:

1. Dr.B. Ravi

Signature:

HOD



Department of Zoology

HEAD

Department of Zoology
S.G.S. Arts College
TIRUPATI-517 501

**S.G.S ARTS COLLEGE, TIRUPATI
DEPARTMENT OF ZOOLOGY**

TIME:..


MARKS:50

**MILK ADULTERATION QUESTION PAPER :
CHOOSE THE CORRECT ANSWERS**


- 1.what are the common adulterants used in milk? ()
a.Urea, Caustic soda b.Formalin,Salicylic acid
c.Both a and b. d.None of these
- 2.For what purpose the adulterants are added to the milk? ()
a.Shelf life b.For froth
c.Spoil of milk d.To decrease the shelf life
- 3.The most common health issues caused by adulterants? ()
a.Food poisoning b.Gastrointestinal complications
c.Cancer heart problems d.All of the above
- 4.What is used as adulterants to increase carbohydrate content and density of milk? ()
a.Ammonium sulphate. b.Boric acid
c.Table sugar. d.Melamine
- 5.The acids used to increase the shelf life of the milk? ()
a.Benzoic acid. b.Acetic acid
c.Salicylic acid d.Both a and c
- 6.The adulterant which is highly toxic and leave a damaging effect on the liver and kidney is ?
a.Formalin b.Starch ()
c.Hydrogen peroxide. d.None of the above
- 7.What is the primary source of fat in synthetic milk? ()
a.Vegetable fat b.Oil
c.Both a and b. d.Animal fat
- 8.What is added in diary products for flavour, preservation and textural properties? ()
a.Salt b.Detergents
c.Paint. d.Urea
- 9.What is used as adulterant in milk to increase the solid content? ()
a.Soap. b.Starch
c.Salt d.Both a and b
- 10.What is SNF in milk? ()
a.Solid not fat. b.Milk fat
c.Stimmed not fat. c.Both a and b
- 11.Milk is a deficient in? ()
a.Vitamin C. b.Iron
c.Both a&b. d.None of the above

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12. Methylene Blue test is used for Detection of ? ()
 a. Milk powder b. Sugar
 c. Micro-organism d. Milk protein
13. The Phosphatase test is used for? ()
 a. Pastuerization b. Adulteration in milk
 c. Urea in milk d. None of the above
14. The specific gravity of milk fat at 21°C? ()
 a. 0.70 b. 0.82
 c. 0.93 d. 0.98
15. The iodine numbers measures the amount of.. ()
 a. Free fatty acids b. Saturated Fatty acids
 c. Chain length of fatty acids d. Unsaturated Glycerides
16. Milk fat differs from other common fats in having a large percentage of ? ()
 a. Free fatty acids b. Saturated fatty acids
 c. Volatile fatty acids d. None of the above
17. Saponification number of butter fat is :. ()
 a. 190. b. 195
 c. 210. d. 231
18. 10-15% more milk is produced with which growth hormones, if injected to lactating cows? ()
 a. Auxin. b. Bovine Growth Hormone
 c. Ethylene d. None of the above
19. The process to increase in volume caused by whipping air into the ice cream mix during freezing is called? ()
 a. Homogenization. b. Aging
 c. Over run. d. Hardening
20. Semisolid ice cream is placed in a hardening room at a temperature of about? ()
 a. -15°C. b. -20°C
 c. -34°C. d. -44°C
21. The "eyes" in swiss cheese are formed by the growth of.. ()
 a. Leuconostoc. b. Propionibacterium
 c. Streptococcus. d. Lactobacillus
22. Lactose reduces copper salt to ? ()
 a. Cupric Oxide. b. Cuprous oxide
 c. copper oxide. d. None of the above
23. Yellow colour of milk fat is due to presence of ? ()
 a. Vitamin D. b. Carotinoids
 c. Calcium d. Folic acid
24. Tests for proper pasteurization are based on the activity of which enzyme ? ()
 a. Lactase. b. Diastase
 c. Phosphatase. d. Catalase
25. Starch is split by which enzyme ? ()
 a. Diastase b. Lactase


HEAD
 Department of Zoology
 S.G.S. Arts College
 TIRUPATI-517 501

- c. Phosphatase. d. Catalase
26. What is the freezing point of milk? ()
 a. 0° . b. -0.55°C
 c. -1°C . d. -1.55°C
27. What is the average boiling point of milk? ()
 a. $100-101^{\circ}\text{C}$ b. $105-110^{\circ}\text{C}$
 c. $115-117^{\circ}\text{C}$. d. $102-105^{\circ}\text{C}$
28. What is the average specific gravity of normal whole milk at 16°C ()
 a. 0.903. b. 1.032
 c. 1.582. d. 2.032
29. Which is the pre-dominating organism in dirty utensils of milk ()
 a. Lactobacillus bulgaricus. b. Propionibacterium
 c. Streptococcus Lactic. d. All of the above
30. Energy value of a food is measured in terms of ? ()
 a. Carbohydrates. b. Fats
 c. Proteins. d. Calories
31. The high nutritive value of cheese is due to:- ()
 a. High mineral contents. b. High protein contents
 c. Taste & flavour. d. All of the above
32. Legal butter must contain at least what percentage of fat ()
 a. 70%. b. 80%
 c. 90%. d. 95%
33. Food value of ice cream depends to a large extent on its ? ()
 a. Flavour. b. Volume
 c. Composition. d. None of the above
34. Chlorine compounds have widespread acceptance in dairy industry due to ? ()
 a. Non-toxicity. b. High sanitizing efficiency
 c. High corrosiveness. d. None of the above
35. At what concentration chlorine sanitizing solutions are usually used in the dairy industry? ()
 a. 50-100ppm. b. 100-200 ppm
 c. 200-500ppm. d. 500-800ppm
36. The process of raising or lowering the percent of fat in milk or cream to a desired standard is called. ()
 a. Enrichment. b. Fortification
 c. Standardization. d. None of the above
37. Butter milk is a fluid product resulting from the manufacture of ? ()
 a. Cheese. b. Yogurt
 c. Ice cream. d. Buttur
38. Fatty acids synthesized in mammary gland are ()
 a. Higher chain fatty acids. b. Unsaturated fatty acids
 c. Lower chain fatty acids. d. Medium and lower fatty acids
39. Most variable constituent of milk is ? ()
 a. Proteins. b. Fat

()

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- c. Lactose
d. Minerals
40. Which of the following has largest particle size in milk? ()
a. Lactose
b. Casein micelles
c. Fat globule
d. None of the above
41. Lactose has water solubility of ? ()
a. 100%
b. 50%
c. 18%
d. 25%
42. Temperature and time combination used for LTLT Pasteurization method? ()
a. 72°celsius for 15 seconds
b. 63° celsius for 30 mins
c. 135°degree celsius for 2-5seconds
d. 72°degree celsius for 15 mins
43. A process of reducing the fat globules in milk to extremely smaller particles and distributing it uniformly throughout the milk is known as? ()
a. Separation
b. Homogenization
c. Evaporation
d. Fermentation
44. The major carbohydrate present in milk is? ()
a. Fructose
b. Sucrose
c. Maltose
d. Lactose
45. The basic sources of microbial contamination of milk is from? ()
a. Within the udder
b. The exterior of the teats and udder
c. Milk handling and storage equipment
d. All the above
46. The Butyro-Refractometer reading of milk fat ranges from? ()
a. 40 to 45
b. 45 to 50
c. 50 to 60
d. None of the above
47. Enzyme required for cheese formation from milk is ? ()
a. Amylase
b. Protease
c. Rennet
d. Phosphatase
48. The psychrotrophic spoilage of pasteurized milk is primarily due to. ()
a. Propionibacter sp
b. Proteus sp
c. Pseudomonas sp
d. Staphylococcus
49. Sweet curdling and bitty cream in pasteurized milk and cream is caused by ? ()
a. Pseudomonas florescens
b. Bacillus cereus
c. Staphylococcus aureus
d. None of the above
50. The centrifugal procedure used for removing bacteria from milk is known as ? ()
a. Homogenization
b. Evaporation
c. Bactofugation
d. Pasteurization




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DEPARTMENT OF ZOOLOGY.
EXAM KEY SHEET.

1.c	21.b	41.c
2.a	22.b	42.a
3.d	23.b	43.b
4.c	24.c	44.d
5.d	25.a	45.d
6.a	26.b	46.a
7.c	27.a	47.c
8.a	28.b	48.c
9.b	29.c	49.b
10.a	30.d	50.c
11.b	31.b	
12.c	32.b	
13.a	33.c	
14.c	34.b	
15.d	35.c	
16.c	36.c	
17.d	37.d	
18.b	38.c	
19.c	39.b	
20.c	40.c	


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Department of Zoology
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SRI GOVINDARAJA SWAMY ARTS COLLEGE, TIRUPATI
ADD ON COURSE: MILK ADULTERATION
MARKS SHEET BATCH-II
Bsc.MZC

S.No	Roll no	Name of the student	Marks in figure	Marks in words
1	321451	A.Nikhil	45	forty five
2	321452	B. Bhavya	46	forty six
3	321454	B. Umesh	38	thirty eight
4	321455	B. Siddesh	43	forty three
5	321457	B. Venkatesh	44	forty four
6	321458	C. Siva	37	thirty seven
7	321459	D. Homanjali	48	forty eight
8	321460	E. Bhargavi	47	forty seven
9	321462	G. Madhu	36	thirty six
10	321464	K. Ajay Kumar	35	thirty five
11	321465	K.Chiranjeevi	47	forty seven
12	321467	K. Lakshmi Narayana	37	thirty seven
13	321469	K.Upendra Reddy	45	forty five
14	321471	M.Pavan Kalyan	43	forty three
15	321472	M.Dinesh	39	thirty nine
16	321473	M.Gajendra Naik	42	forty two
17	321474	M. Nithish koushik	46	forty six
18	321475	M.Baby Priyanka	40	forty
19	321476	N.Vishnu vardhan	41	forty one
20	321479	P.Abhishai Babu	45	forty five
21	321480	P.Amruth Raj	41	forty one
22	321481	P.Ramya	42	forty two
23	321482	P.Mahesh	44	forty four
24	321483	P.V.Nynakshitha	49	forty nine
25	321484	R. Vasavi	49	forty nine
26	321485	R.Divya	44	forty four
27	321486	S.Sathish	42	forty two
28	321488	B.Sonu Prakash naik	43	forty three
29	321489	T.Anil	40	forty
30	321490	T.Nivedha	49	forty nine
31	321491	T.P. Nikhil	36	thirty six
32	321492	V.C. Triveni	39	thirty nine


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 Department of Zoology
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SRI GOVINDARAJA SWAMY ARTS COLLEGE, TIRUPATI
ADD ON COURSE : MILK ADULTERATION
MARKS SHEET BATCH-I
Bsc.CBZ

S.No	Roll no	Name of the student	Marks in figure	Marks in words
1	321351	B. Jagadeesh	40	Forty
2	321355	E. Ramesh	36	Thirty Six
3	321357	G. Jyoshna	38	Thirty Eight
4	321358	G. Karthik	42	forty Two
5	321359	G. Manohar Babu	45	forty five
6	321361	K. Hema Kumar	48	forty Eight
7	321363	K. Raju	37	Thirty Seven
8	321364	K. Sangeetha	46	forty Six
9	321365	K. Tejaswini	42	forty Two
10	321367	K. Hari Lingadu	36	Thirty Six
11	321369	K. Vinod Kumar	45	forty five
12	321370	M. Raju	37	Thirty Seven
13	321371	M. Supriya	41	forty one
14	321372	M. Bhoomika	39	thirty nine
15	321373	M. Vasu Deva Reddy	40	forty
16	321374	P. Vani sree	41	forty one
17	321375	P. Lavanya	44	forty four
18	321376	S. Ahmad Ali	43	forty Three
19	321379	T. Teja	39	thirty nine
20	321380	M. Varsha	49	forty nine
21	321381	Y. Prameela	47	forty Seven
22	321382	Y. Ganga Devi	36	thirty Six


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 Department of Zoology
S.G.S. Arts College
 TIRUPATI-517 501

SKILL DEVELOPMENT PROGRAM

OM NAMOVENKATESAYA

**SRI GOVINDARAJASWAMY ARTS
COLLEGE: TTD, TIRUPATI**



**DEPARTMENT OF ENGLISH
EXTRA CURRICULAR ACTIVITY
FOR STUDENTS
ACADEMIC YEAR 2022-23**

OM NAMOVENKATESAYA

**SRI GOVINDARAJASWAMY ARTS
COLLEGE: TTD, TIRUPATI**



DEPARTMENT OF ENGLISH EXTRA CURICULAR ACTIVITY ON SKILL DEVELOPMENT COUSES

YEAR : 2022-23
DATE : 20-4-2023
CONDUCTED BY : Dr.V.Madhu Kumar, HOD of English

**Sri P.Chandraiah,
Dr.A.Venkata Ramanamma
Dr Radhika
:Awareness on Skill Development**

**PROGRAMME TOPIC
Courses**

**OBJECTIVES OF THE
PROGRAMME
Skill Development**

**: inculcate awareness towards
Courses among the students
opportunities.**

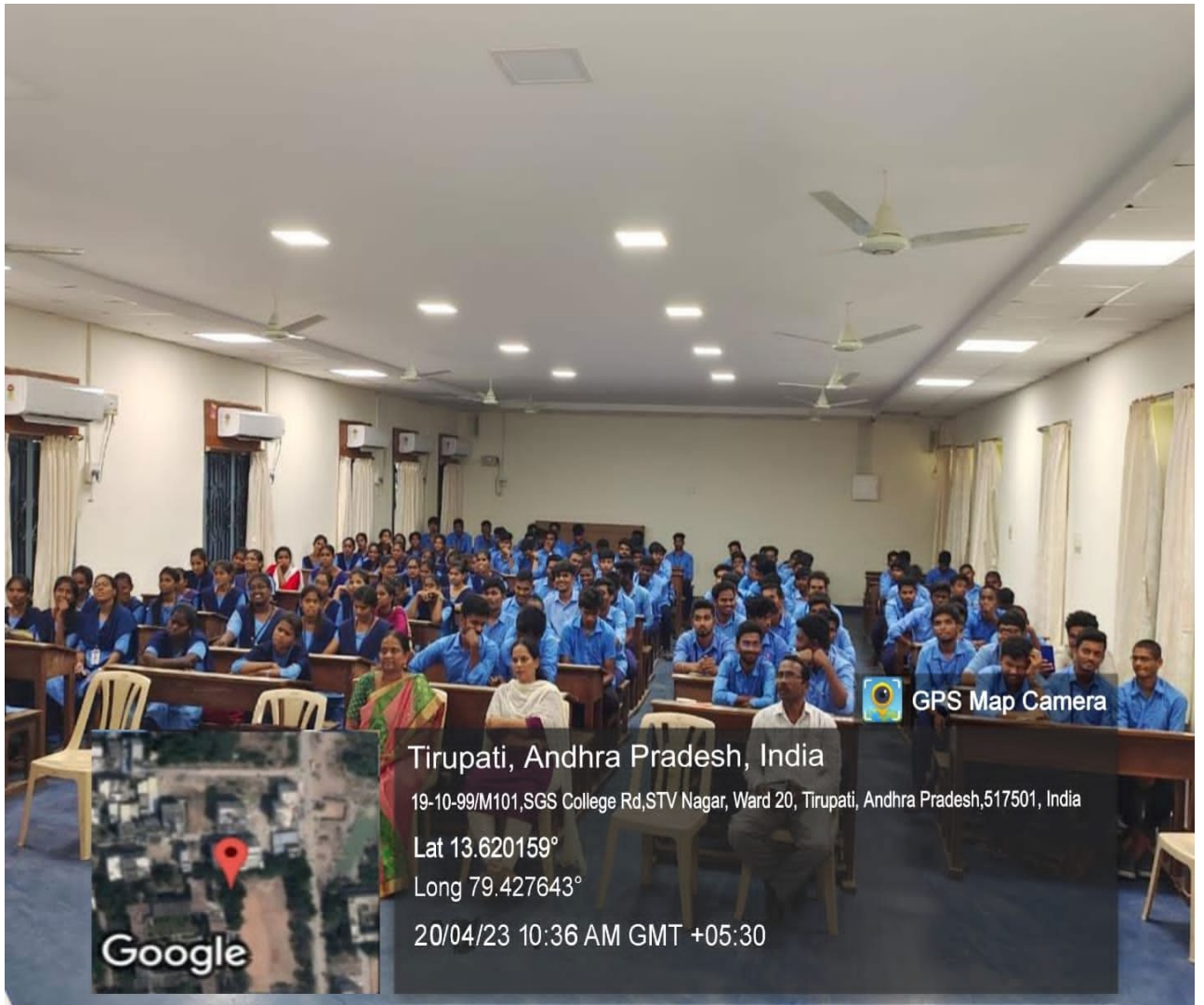
for employment

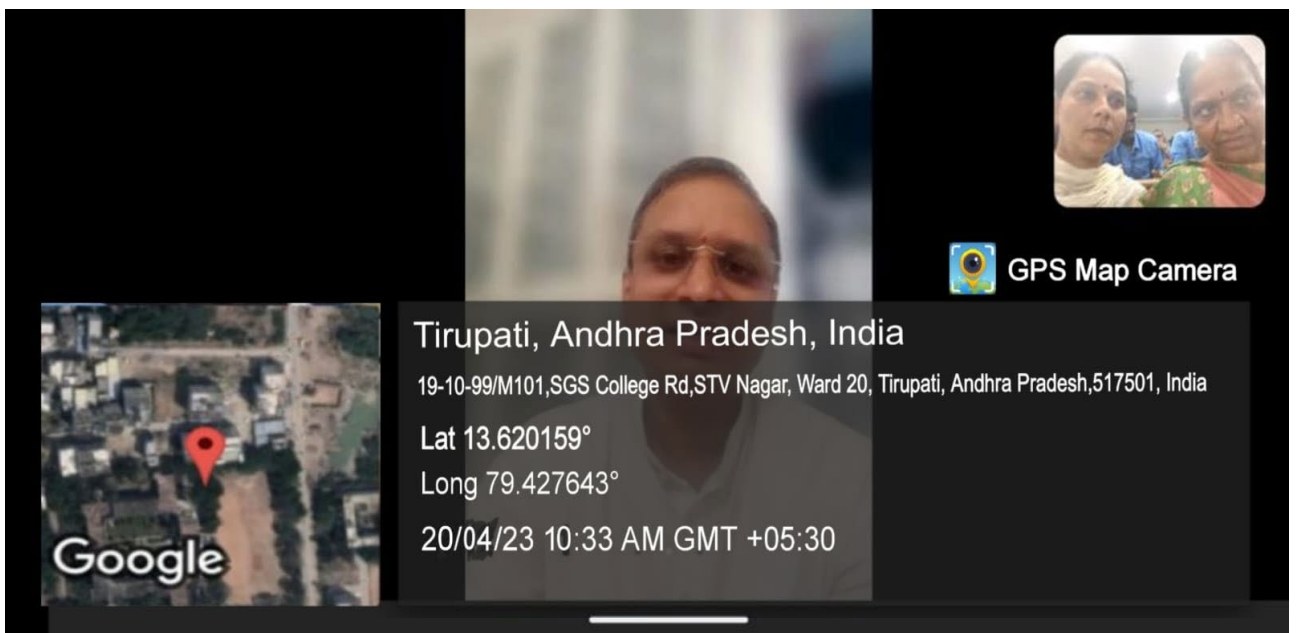
**OUT COMES OF THE
PROGRAMME
towards one**

: Students acquired knowledge

**courses in addit
Degree course.**

**Month, two months technical
addition our**





2022-23
I Semester

I B.Sc. (CT&HM) EM

22111	BADADHALA GIRI BABU	D. Giribabu
22112	BATHALA VENKATESH	B. Venkatesh
22113	BODDU TEJA	B. Teja
22114	BRAMHANAPALLI BHUSHAN KUMAR	B. Bhushan Kumar
22115	BUDAMAGUNTALA MAHESH	B. Mahesh
22116	C JAHNAVI	C. JAHNAVI
22117	CHERI PREM KUMAR	C. PREM KUMAR
22118	CHERI PAVAN KUMAR	C. Pavan Kumar
22119	CHILAPOTHU MOHAN BABU	C. Mohan Babu
22120	DEVARA THARUN KUMAR	D. Tharun Kumar
22121	KAMBAM PRABHUKUMAR	K. Prabhu Kumar
22122	KOTAPATI SIVA KRISHNA	K. Siva Krishna
22123	KURUVA HARIKRISHNA	K. HariKrishna
22124	MANTHRI HEMASAGAR	M. hema satar
22125	MEKALA NANDU	M. nandu
22126	NARIGANTI SUNEEL	N. suneel
22127	PADI DINESH	P. Dinesh
22128	PATURU LAKSHMIPATHI	P. lakshmi pathi
22129	POLIPALLI MAHESH	P. mahesh
22130	PYARA REDDEPPA	P. Reddeppa
22131	ROSIGALLA CHINNA SUBBARAYUDU	
22132	SANAPATHI RAMAKRISHNA	S. Ramakrishna
22133	SATHYALA SIMHADRI	S. Simhadri
22134	SETTI MANOJ KUMAR	S. Manoj Kumar
22135	SYAMAL KIRAN	S. Kiran
22136	THANNEERU DURGAPRASAD	T. Durgaprasad

I Semester
2022-23

● I B.Sc. (BBC) EM

22011	BHUKYA SUNIL NAIK	Bhukya sunil Naik
22012	BAINT SREELATHA	Baint sreelatha
22013	BODDU REDDY PRASANTH	B. Reddy Prasanth
22014	Buddannagarisaiprasad	B. Sai Prasad
22015	CHIRROLLA PAVAN KUMAR	C. Pavan Kumar
22016	DEVENDRA NAIK MODARACHA	D. Naik Modaracha
22017	GADDAM SNEHA LATHA REDDY	G. sneha latha reddy
22018	GOLLAPALLI NAGABABU	G. Nagababu
22019	GUNTI JAGADEESH	Gunti Jagadeesh
22020	JATURU TEJASREE	J. Teja sree
22021	JUTLAIHA MATAM SUGUNAKAR	J. matam sugunakar
22022	L JAYAPRAKASH	L. JAYAPRAKASH
22023	M KUSHWANTH	M. kushwanth
22024	MALARAPU BHAVYA BAVANA	M. Bhavya Bavana
22025	MALLIBOYANA BALA GURIAIAH	M. Bala Guraiah
22026	MANDAPATI LOKESH BABU	M. Lokesh babu
22027	MANJULA TEJASWI	M. Tejaswi
22028	MELLA LOUKYA	MELLALOUKYA
22029	MUNDLAPUDI JAHNAVI	M. Jahnavi
22030	NANDAMVEERA HARIKEERTHI	N. Harikeerthi
22031	P POOJITHA	P. Poojitha
22032	PALAKALA LOKESH	P. Lokesh
22033	PALIGALA MUKESH RUSHI	P. Mukesh Rushi.
22034	PAMULA CHANDRAMOULI	P. Chandramouli
22035	PASUPULETI VENKATESWARA	P. Venkateswara
22036	PEMARA VINODKUMAR	P. Vinodkumar

2022-23
I Semester

B.Sc MPCs 1ST YEAR

S.no	Hallticker Number	Roll No	Student Name	
1	323008001	32422001	BANAVARAM MOHAN RAJ	B. Mohan Raj
2	323008002	32422002	BANGI SANTHOSH KUMAR	B. Sathnosh Kumar
3	323008003	32422003	BHEEMAVARAM CHAITHANYA	B. Chaitanya
4	323008004	32422004	BUSINE VANNURU	B. Vannuru
5	323008005	32422005	CHAVIDI UDAY KIRAN	C. Uday Kiran
6	323008006	32422006	CHINTALA BHARGAV	C. Bhargav
7	323008007	32422007	DASETTY SAI KIRAN	D. Sai Kiran
8	323008008	32422008	EGUVAPUTTURU SURYA	E. Surya
9	323008009	32422009	GAAJULA SREEKANTH	G. Sreekanth
10	323008010	32422010	GADI JYOTHI BABU	G. Jyothi Babu
11	323008011	32422011	GANDURI VARUN	G. Varun
12	323008012	32422012	GORLA KARTHIK YADAV	G. Karthik Yadav
13	323008013	32422013	J JAYANTHI	J. Jayanthi
14	323008014	32422014	KAKUTURI SRI SAI	K. Sri Sai
15	323008015	32422015	KANTA PARTHA SARADHI	K. Saradhi
16	323008016	32422016	MANCHURI HARITHA	M. Haritha
17	323008017	32422017	NALLAGATLA MADHUMOHAN	N. Madhumohan
18	323008018	32422018	NALLAGATLA NAGENDRA BABU	N. Nagendra Babu
19	323008019	32422019	NEELA VEDAVATHI	N. Vedavathi
20	323008020	32422020	PALLA VENKATA PRAVEEN KUMAR	P. Praveen Kumar
21	323008021	32422021	PALLIKONDA ARUN VAMSI	P. Arun Kumar
22	323008022	32422022	PODALA THARUN KUMAR	P. Tharun Kumar
23	323008023	32422023	SALLAKUTTI SUJINA	S. Sujina
24	323008024	32422024	TEKURI DAMODAR	T. Damodar
25	323008025	32422025	THUDAKULA NAVEENA	T. Dhmodar
26	323008026	32422026	VEERAPPAREDDY JEEVAN KUMAR	N. Jeevan Kumar
27	323008027	32422027	VEMPALLI NAGESWARI	N. Nageswari
28	323008028	32422028	YERUKALA SRINIVASULU	Y. Srinivasulu

2022-23.
I semester CBZ/BZC.

B.Sc BZC 1ST YEAR

S.no	Hallticker Number	Roll No	Student Name	
1	3.23E+08	31022001	CHALAMALA APUROOPA	C. APURROOPA
2	3.23E+08	31022002	DHANNASI JYOTHI	Dhannasi jyothi
3	3.23E+08	31022003	ERRABALLI GANESH	E. Ganesh
4	3.23E+08	31022004	KOPPALA REVANTHKUMAR	K. Revanth kumar
5	3.23E+08	31022005	MEESALA SAILU	M. SAILU
6	3.23E+08	31022006	NALAGARLA VARUN TEJA	N. Varun Teja
7	3.23E+08	31022007	NUMBER RAKESH	number RAKESH
8	3.23E+08	31022008	PATTU MARAPU GUNASEKHAR	PATTU MARAPU GUNASEKHAR
9	3.23E+08	31022009	PEDDAPALYAM SIVAJI	P. Sivaji
10	3.23E+08	31022010	REPALLI DANIEL	R. Daniel
11	3.23E+08	31022011	SALLAKUTTI SUJATHA	S. Sujatha
12	3.23E+08	31022012	SAMIKARI LOKESH	SAMIKARI Lokesh
13	3.23E+08	31022013	SHANAMPURI THULASILAKSHMI	S. Thulasi lakshmi
14	3.23E+08	31022014	THUMMURU VENKATESH	T. Venkatesh

2022-23.
II semester

I BA (ASCA)

21361	BALIPONGU MADHU	BALIPONGU MADHU
21362	BANDI INDRASEKHAR REDDY	B. INDRASEKHAR REDDY
21363	BANDI VENKATA SWAMI	B. VENKATA SWAMI
21364	BUKKE SANTOSH NAIK	B. SANTOSH NAIK
21365	CHEMBETI SAIKUMAR	C. SAIKUMAR
21366	CHUKKA MURALI	CHUKKA MURALI
21367	DEVIREDDY NARENDRA	D. NARENDRA
21368	DHOPPALAPUDI GUNAVATHI	D. GUNAVATHI
21369	DODDI PAVAN KUMAR	D. PAVAN KUMAR
21370	K PURUSHOTHAM	K PURUSHOTHAM
21371	KALISSETTY SASIDHAR	K. SASIDHAR
21372	KAPPALA KIRAN	K. KIRAN
21373	KAVALI BRAHMAIAH	K. BRAHMAIAH
21374	KOVI RAMUDU	KOVI RAMUDU
21375	KURRAKALVA RAMESH	K. RAMESH
21376	MADIGA BABU	M. BABU
21377	MALLI VENKATESH	M. VENKATESH
21378	MALOTHU PRAVEEN	M. PRAVEEN
21379	MEKAPILLA MUNINANDHU	M. MUNINANDHU
21380	MUDDANAMAINA SAI KUMAR	M. SAI KUMAR
21381	N KODANDAPANI	N. KODANDAPANI
21382	NAVIDA THARUN	N. THARUN
21383	NALLAPPAGARI UDAY KIRAN	N. UDAY KIRAN
21384	NUMBER RAKESH	N. RAKESH

Special Program for Lifestyle Disorders
Department of CTHM

"OM NAMO VENKATESAYA"

Sri Govindaraja Swamy Arts College, Tirupati

Tirumala Tirupati Devasthanams

(Affiliated To S.V university : Tirupati)

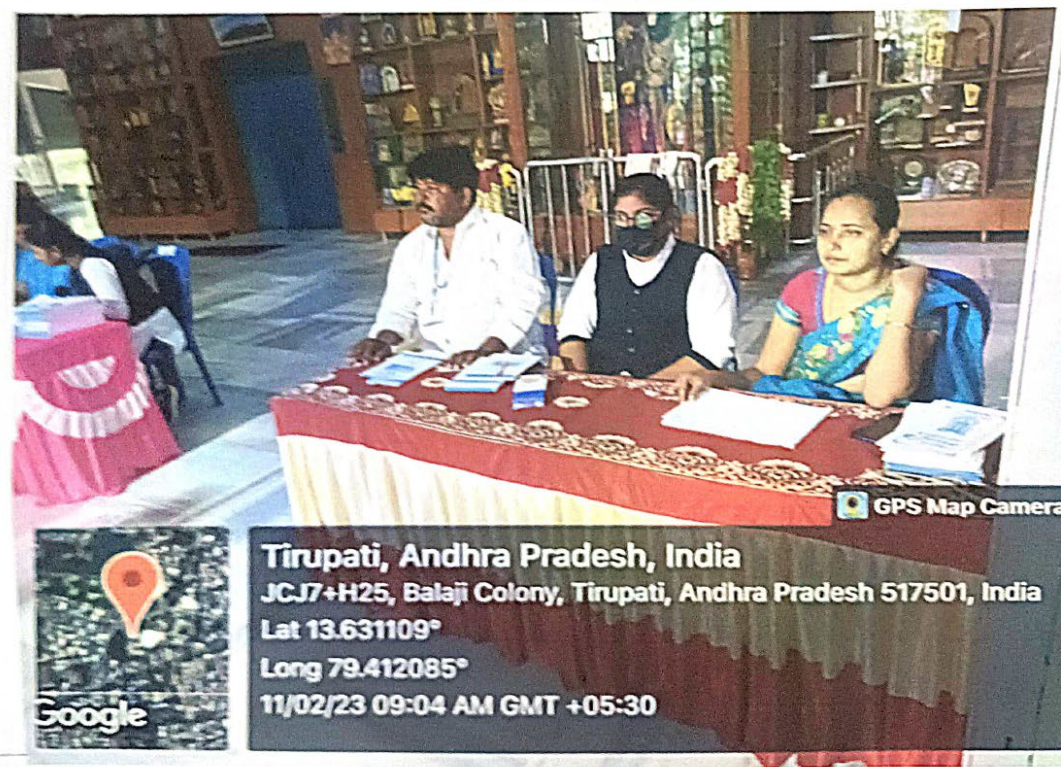
ESTD :1969



Department of Hotel Management

*Record of Additional responsibilities
of staff and Outcome*

2022 - 2023









Department of
CATERING TOURISM & HOTEL MANAGEMENT
List of Students Participation

S.NO	NAME
1	NAJESH
2	PRAKASH
3	MANOJ
4	MADHU
5	LATHIF
6	LAHARI
7	POORNIMA
8	CHAITANYA
9	VAMSI
10	SAI LOKESH
11	SAI KARTHIK
12	AKHIL
13	NANDHINI
14	HARIKA
15	NANDHU
16	PREM
17	HEMSAGAR
18	HARI KISHORE
19	P. MAHESH
20	RAMAKRISHNA
21	BASVARAJU
22	B TEJA
23	N AJAY
24	N SAI VENKAT
25	B JAGAN
26	B GIRI
27	REDDEPPA
28	MANOJ
29	LAXMIPATI
30	SAHITYA
31	SATEESH

H.O.D.
CATERING TOURING
HOTEL MANAGEMEN
S.G.S.ARTS COLLEG
TIRUPATI