

**SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE
AND COMMERCE FOR WOMEN, TUMKUR**



DEPARTMENT OF MICROBIOLOGY

Report of

BRIDGE COURSE

“BASICS OF MICROBIOLOGY”
2026-2027





Sree Siddaganga Education Society (H.)
Estd. 1982

Sree Siddaganga College of Arts, Science and Commerce for Women

Re-accredited with
Grade **B+**

(Affiliated to Tumkur University)

B.H. Road, Tumkur-572102, Karnataka

Ph: 0816-2272312 E-mail: sscasc.women@gmail.com

Website: www.sscwtumkur.org

Date : 04-08-2026

TO
The Principal
SSCASCW
Tumkur

Subject : Seeking the permission to conduct Bridge Course for I BSc (SEP) -2025-26.

Dear Sir ,

The Department of Microbiology would like to inform you that, our department plans to conduct a Bridge Course for I BSc CZM students.

In this regard, I kindly request your permission to hold the Bridge Course from 05-08-2026 to 10-08-2026.

Thanking you


PRINCIPAL
Sree Siddaganga College of Arts
Science and Commerce for Women
B.H. Road, Tumkur.


Yours faithfully
HEAD OF THE DEPT. OF MICROBIOLOGY
Sree Siddaganga College of Arts,
Science & Commerce for Women
TUMKUR-572102


Co-ordinator
IQAC / NAAC
SSCASCW, Tumkur.



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Date : 04-08-2026

Notice

This is to notify that, Dept. of Microbiology, with prior permission of principal has decided to start Bridge course in Microbiology department for the B.Sc first year students from 05-08-2026 to 10-08-2026.

HEAD DEPT. OF MICROBIOLOGY
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**SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN,
TUMKUR**

DEPARTMENT OF MICROBIOLOGY

BRIDGE COURSE

Course Title : "Basics of Microbiology"

SESSION 2026-27

Date : 05-08-2026 to 10-08-2026 (05 Days)

The Bridge Course was organized By the Department of Microbiology for newly admitted students of B. Sc. First year. The course was conducted before the comessment of first semester classes. The syllabus includes concept of 12th standard level and prerequisite of B. Sc. course. The main objective of the course is to bridge the gap between subjects to be studied at university level and 12th standard, personality development and guidance for future carrier opportunities.

1. The 05 days Bridge Course was organised by department of Microbiology, total 09 students enrolled for the course.
2. The course was inaugurated by the Principal Dr. H.M Dakshinamurthy, along with the IQAC Coordinator and Head of the Department of Microbiology Prof. G Chidanandamurthy.
3. Over 09 newly admitted students from the B.Sc. First year SEM-I participated in the programme.

4. Aim of the Programme

The course was designed to provide a solid understanding of the subject such as development of academic standard and academic performance.

To gradually increase the self confidence to face exams and syllabus of the new change pattern.

The conducted classes consisted of theory and hands on Practicals. The classes has started from 18/08/2025 and lasted till 23/08/2025. At completion of the course, the participated students have awarded with certificate.

5. Outcome of the Programme

Students will become familiar to curriculum and examination.

Students will be able to design their own study schedule.

Students will be acquainted well with the curricular and extracurricular activities.

Students will be able to manage personal responsibilities.

At the end students are awarded with the certificate of participation and workshop concluded with the valediction and views of the students.

Basics of Microbiology:

Comparison of general Biology and Microbiology. Definition, Branches of Microbiology, and its Importance science

Physiology:

Basic Concept Discussion of the Physiology of Plants, Animals. Bacteria, Basics Components, and Their relevance to microbiology.

Building block molecules:

Discussion of four major biomolecules studied in general biology and their importance in microbiology, metabolism and enzymes.

Relationship of microbes between plants and animals:

Discussion of microbes role in plants growth, photosynthesis, nitrogen fixation, biofertilizer, discussion of microbes, role in animals, good and bad bacteria, normal flora and infections.(Typhoid, dysentery, food poisoning etc).

Advance infectious agent (virus):

Definition, physiology, classification(bacterial, plant and animal viruses), disease (Pandemic Corona), vaccines.

Immunology:

General concept of immunology, discussion on immunity and terminology used in immunology in general, including antigens and antibodies and their rules.

Parasitology:

General discussion of parasites: Definition, types and Diseases Malaria, filariasis, amoebiasis etc,,

Microbes in human welfare:

Microbes in household food processing, microbes in industries, and microbes waste management, in brief, Microbes as biocontrol agents, Microbes in biogas production

Genetics and Molecular Biology:

Discussion of the specific role of genetics and molecular biology in general biology and its comparison with bacteria and viruses, Discussion of gene, genome, plasmid, genetic code, replication, transcription, and translation roles in bacteria.

Advances in microbiology:

Discussion of Recombinant DNA Technology, PCR, and Transgenic Plants and Animals

Introduction to Basic Instruments and Classware:

Glassware: conical flask, volumetric flask, beaker, pipette, burette, measuring cylinder, etc., their ranges, uses, and calibrations.

Instruments: Incubator, oven, balance (single pan and digital), BOD incubator, microscope, water bath, pH metre, colorimeter, autoclave, etc., uses, handling, and calibrations.

Preparation of reagents and media: percent, normal, and molar solutions preparations, broth and media preparations, slant and plate preparations, storage and maintenance of culture.

DEPARTMENT OF MICROBIOLOGY

BRIDGE COURSE

Course Title : “Basics of Microbiology”

SESSION 2026-27

List of the students enrolled for the programme

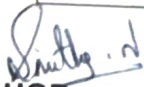
Sl.No	Name of the students
01	Anjali K A
02	Arbin Taj
03	Archana M A
04	Arpitha T
05	Bhanuteja S G
06	Bhoomika S
07	Bi Bi Hajira
08	Chaithra T N
09	Divyashree G
10	Jalaja L
11	Jayalakshmi
12	Keerthana
13	Likhitha H
14	Monika D
15	Muskan
16	Nanditha R
17	Nayana L
18	Nithyashree N C
19	Noor Asma Khanum
20	Noor Ayesha
21	P B Chaithanya
22	Ramya M N
23	Ramyashree D
24	Shilpa K H
25	Siddiqa Bhanu
26	Spoorthi Rani
27	Supriya
28	Teja D P



**SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR
WOMEN, TUMKUR**

**DEPARTMENT OF MICROBIOLOGY
BRIDGE COURSE
Course Title : "Basics of Microbiology"
SESSION 2026-27**

Course duration	05 Days
Time table	05-08-2026 to 10-08-2026, 9.30 AM to 12.30 PM
Place	Dept. of Microbiology, Microbiology laboratory
Course teacher	1. Smitha. N 2. Amrutha G.M
Course for class	B.Sc first year Microbiology students
Nature	Academic
Objectives	1) To prepare students for the thorough knowledge of the specific subjects 2) To develop interest in Microbiology subjects 3) To develop scientific attitude towards basic sciences 4) To make teaching-learning process smooth and student friendly
Brief information about course	Bridge course is essential for degree students as they have entered from general subject Biology to specific subject Microbiology. Though students learnt Microbiology as a part of biology in 10+2 level, now they are going to become specialized in Microbiology. It is a preparatory course with an academic curriculum that is offered to under graduate students as a means of preparing for the intellectual challenges of higher education.
Outcomes	☐ Students will become familiar to curriculum and examination. ☐ Students will be able to design their own study schedule. ☐ Students will be acquainted well with the curricular and extracurricular activities. ☐ Students will be able to manage personal responsibilities.
Feedback analysis	1) Students have been familiar with basics of Microbiology. 2) It has proved fruitful to build confidence to the students. 3) Bridge course developed students scientific reasoning and thinking.
Supporting documents	Notice, attendance and photos


HOD
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Supporting documents: Attendance and Photos

Name of the Institution.....SS CASW											
Sl. No.	NAME	1	2	3	4	5	6	7	8	9	10
01	Arbin Taj	1	A	A	2	3	4	1	5	6	7
02	Aachana. M.A	1	2	3	A	4	5	6	A	7	8
03	Bhanukya S.G	A	A	1	2	3	A	A	A	A	A
04	Bhoomika.S	1	2	3	4	5	6	7	8	9	10
05	Charthaa. T.N	1	2	3	4	5	A	A	A	6	A
06	Divyashree .G	1	2	3	4	5	6	7	8	9	10
07	Jolaja .L	1	2	3	4	5	6	7	8	A	A
08	Likitha. M	A	A	1	2	3	4	5	6	A	A
09	Monika .D	1	2	A	A	A	3	4	5	6	7
10	Muskan	1	2	3	4	5	6	A	A	7	A
11	Nanditha. R	1	2	A	3	4	5	6	7	A	8
12	Nayana. L	1	A	2	3	4	5	6	7	8	9
13	Nithyashree .N.C	1	2	3	4	5	6	7	8	9	10
14	Noor Asma Khanum	1	2	A	3	4	5	6	A	7	A
15	Noor Ayesha	1	2	3	4	A	5	6	7	8	9
16	P.B charthanya	1	2	3	4	5	6	7	8	9	10
17	Ramyashree	A	A	A	A	A	A	A	A	A	A
18	Ramya. M.N	1	2	3	4	5	6	7	A	8	9
19	Ramyashree. D	1	2	A	A	3	4	A	A	5	6
20	Shilpa .K.H	1	A	2	3	4	5	6	7	8	9
21	Sridurga Bhanu	A	1	2	3	4	5	6	7	8	9
22	Spoonthi .Rani	1	2	3	4	5	A	A	6	7	8
23	Supriya									1	2
24	Teja. D.p	1	2	3	4	5	A	6	7	8	9
25	Anjali .K.A										
26	Aparitha .T										

Name of the Institution.....SS CASW											
Sl. No.	NAME	1	2	3	4	5	6	7	8	9	10
27	BiBi Najma	A	A	A	A	A	A	A	A	A	A
28	Tayyabathimi	A	A	A	A	A	A	A	A	A	A
29	Leelana										



B. M. e
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Smitha N
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Tumakur, Karnataka, India
 83qx+fqq Government District Hospital, Ward No.
 18, Tumkur, Tumakur, Karnataka 572101, India
 Lat 13.338454° Long 77.099214°
 Wednesday, 12/08/2026 10:33 AM GMT +05:30

SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN, TUMKUR
DEPARTMENT OF MICROBIOLOGY
BRIDGE COURSE
Evaluation Sheet

Items	Excellent	Good	Fair	Need improvements
1.The items that were part of the programme	✓			
2.The quality of facilities	✓			
3.Time utilization	✓			

My thoughts on this programme

The five days bridge course was Excellent

My overall rating of this programme(Tick a box)(0=Least possible score 9=Highest possible score)

0	1	2	3	4	5	6	7	8	9
									✓

B. Inel
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DEPARTMENT OF MICROBIOLOGY
BRIDGE COURSE
Evaluation Sheet

Items	Excellent	Good	Fair	Need improvements
1.The items that were part of the programme	✓			
2.The quality of facilities	✓			
3.Time utilization		✓		

My thoughts on this programme

Teachers approach and interactions are
Excellent

My overall rating of this programme(Tick a box)(0=Least possible score 9=Highest possible score)

0	1	2	3	4	5	6	7	8	9
									✓

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BRIDGE COURSE
Evaluation Sheet

Items	Excellent	Good	Fair	Need improvements
1.The items that were part of the programme		✓		
2.The quality of facilities	✓			
3.Time utilization	✓			

My thoughts on this programme

Good, very innovative

My overall rating of this programme(Tick a box)(0=Least possible score 9=Highest possible score)

0	1	2	3	4	5	6	7	8	9
								✓	

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