

Board of studies of M.Sc., Microbiology is held on 16<sup>th</sup> March, 2021 at 10.30 AM in the microbiology Department of Sadakathullah Appa College (Autonomous), Trl.

The members of the board analysed the newly formed syllabus and gave some recommendations for revision and modifications.

## II. Discipline Specific Core (DSC - 11 papers)

1. General Microbiology and Bacteriology
2. Techniques in Microbiology
3. Microbial Diversity and Classification
4. Microbial Biochemistry
5. Microbial Physiology and Metabolism
6. Molecular Biology and Genetic Engineering
7. Immunology
8. Medical Microbiology
9. Research Methodology
10. Food and Dairy Microbiology
11. Industrial and Pharmaceutical Microbiology

## Discipline Specific Electives (DSE - 4 papers)

1. Agricultural and Marine Microbiology
2. Virology
3. Quality Assurance in Microbiology
4. Advances in Biotechnology

## Discipline Specific Core Practical (DSCP - 8 papers)

1. Techniques in Bacteriology
2. Techniques in Agricultural and Marine Microbiology
3. Techniques in Virology and Microbial Physiology
4. Techniques in Molecular Biology and Genetic Engineering

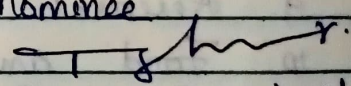
5. Techniques in Immunology and Research Methodology
6. ~~Techniques in Medical and Quality Assurance in Microbiology~~
7. Techniques in Food and Dairy Microbiology
8. Techniques in Industrial and Pharmaceutical Microbiology

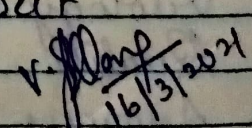
Interdisciplinary course (IDC - 2 papers) / Project (1)

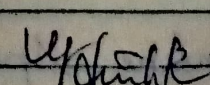
1. Microbiology and Human Health
2. Entrepreneurship in Microbiology. Recommendations given by  
 \* To enhance the industrial exposure / Skills and employment opportunities project work along with alt. papers can be adopted for final year M.Sc., Microbiology student also it would be better the project work may be shifted to III semester instead of IV Sem. So that the III<sup>rd</sup> Sem papers can be shifted to IV Semester.

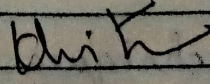
\* Instead of including online course in curriculum, the also courses (MOOC) can be categorised as extra optional credit course

The following members are present.

1) Dr. T. Siva Kumar University nominee  
 Asst. prof of Microbiology  
 Appanada Sahaki Amma College  
 Sahaki, Madhuranagar  
  
 16/3/2024

2. Dr. Joice Selva Mary Albert  
 Head & Asst. prof of Micro Subject Expert  
 St. Mary's College (Autonomous)  
 Tuticorin.  
  
 16/3/2024

3. Dr. R. Janet Rani, Chairman  


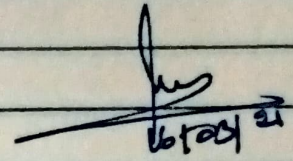
4. Dr. K. Chitra  


5. Dr. K. Peraz Khan  



6. Dr. M. Senthil @ Sankar

Dr. S. S. Ah

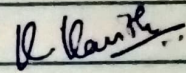
7. Dr. H. Manohar

  
16/03/21

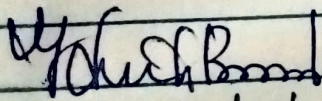
8. Dr. Hameedullah Sheriff



9. Dr. K. Karitha



\* Resolved to introduce the new courses and revise the syllabus as mentioned in the annexure.



16/3/2021

Chairman / BOS MB

**DR. R. JANET RANI**

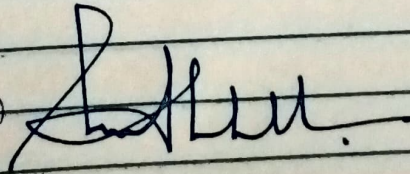
M.Sc., M.Phil., Ph.D.,

Head and Assistant Professor

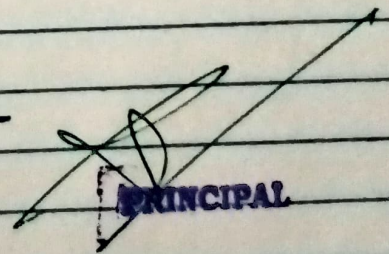
Department of Microbiology

Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011,  
Tamilnadu, India



**DEAN OF SCIENCES**



**PRINCIPAL**

**CHAIRMAN / CHAIRPERSON**



# Sadakathullah Appa College

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## Annexure -I

### Department of Microbiology (PG)

The Board of Studies of Department of Microbiology (PG) was held on 16.03.2021 for the approval of 2021-2024 syllabus. The number of new courses, courses focussing on Skill Development / Employability / Entrepreneurship, the percentage of revision are mentioned below.

#### New Courses introduced

S. No	Title of the course	Course code
1	Microbial Diversity and Classification	21PCMB13
2	Agricultural, Environmental and Marine Microbiology	21PEMB11A
3	Techniques in Agricultural, Environmental and Marine Microbiology	21PCMB1P2
4	Advances in Biotechnology	21PEMB11B
5	Bioethics, Biosafety and IPR	21PEMB11C
6	Food Safety, Quality Control, Sensory Evaluation	21PEMB21B
7	Fermentation Technology	21PEMB21C
8	Forensic Microbiology	21PEMB31B
9	Veterinary Microbiology	21PEMB31C
10	Environment and Waste Management	21PEMB41C

#### Courses focused on Skill development/Employability/Entrepreneurship

S.No	Title of the course	Course Code	Category
1	Techniques in Microbiology	21PCMB12	Skill development
2	Agricultural, Environmental and Marine Microbiology	21PEMB11A	Skill Development/ Employability
3	Techniques in Agricultural, Environmental and Marine Microbiology	21PCMB1P2	Skill Development/ Employability
4	Microbiology and Human Health	21PIMB11	Skill Development
5	Entrepreneur in Microbiology	21PIMB31	Skill Development
6	Techniques in Bacteriology	21PCMB1P1	Skill Development /Employability
7	Techniques in Microbial Physiology	21PCMB2P1	Skill Development /Employability
8	Techniques in Molecular biology and Genetic engineering	21PCMB2P2	Skill Development/ Employability
9	Immunology	21PCMB31	Skill Development/ Employability





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10	Medical Microbiology	21PCMB32	Skill Development/ Employability
11	Quality assurance in Microbiology	21PEMB31A	Employability
12	Advances in Biotechnology	21PEMB41A	Skill Development/ Employability
13	Research Methodology and Biostatistics	21PCMB33	Skill Development/ Employability
14	Techniques in immunology and research methodology	21PCMB3P1	Skill Development/ Employability
15	Techniques in medical and quality assurance in Microbiology	21PCMB3P2	Skill Development/ Employability
16	Food and Dairy Microbiology	21PCMB41	Employability
17	Industrial and Pharmaceutical Microbiology	21PCMB42	Skill Development/ Employability
18	Bioethics, Biosafety and IPR	21PEMB11C	Employability
19	Food Safety, Quality Control, Sensory Evaluation	21PEMB21B	Skill Development/ Employability
20	Fermentation Technology	21PEMB21C	Skill Development/ Employability
21	Forensic Microbiology	21PEMB31B	Employability
22	Veterinary Microbiology	21PEMB31C	Employability
23	Environment and Waste Management	21PEMB41C	Employability
24	Project	21PPMB41	Skill Development/ Employability/ Entrepreneurship
25	Techniques in Food and Dairy Microbiology	21PCMB4P1	Skill Development/ Employability
26	Techniques in Industrial and Pharma Microbiology	21PCMB4P2	Skill Development/ Employability

## PERCENTAGE OF REVISION

S. No	Title of the course	Course code	Percentage
1	Microbial Diversity and Classification	21PCMB13	100%
2	Agricultural, Environmental and Marine Microbiology	21PEMB11A	100%
3	Techniques in Agricultural, Environmental and Marine Microbiology	21PCMB1P2	100%
4	Advances in Biotechnology	21PEMB11B	100%
5	Bioethics, Biosafety and IPR	21PEMB11C	100%
6	Food Safety, Quality Control, Sensory	21PEMB21B	100%





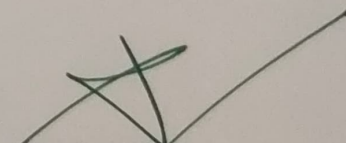
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	Evaluation		
7	Fermentation Technology	21PEMB21C	100%
8	Forensic Microbiology	21PEMB31B	100%
9	Veterinary Microbiology	21PEMB31C	100%
10	Environment and Waste Management	21PEMB41C	100%
11	General Microbiology	21PCMB11	78%
12	Techniques in Microbiology	21PCMB12	19%
13	Techniques in Bacteriology	21PCMB1P1	2%
14	Microbiology and Human Health	21PIMB11	6%
15	Microbial Biochemistry	21PCMB21	28%
16	Microbial Physiology and Metabolism	21PCMB22	42%
17	Molecular Biology and Genetic Engineering	21PCMB23	26%
18	Virology	21PEMB21A	75%
19	Techniques in Microbial Physiology And Virology	21PCMB2P1	8%
20	Techniques In Biochemistry, Molecular Biology and Genetic Engineering	21PCMB2P2	8%
21	Immunology	21PCMB31	2%
22	Quality Assurance in Microbiology	21PEMB31A	40%
23	Techniques In Immunology and Research Methodology	21PCMB3P1	2%
24	Techniques In Medical and Quality Assurance In Microbiology	21PCMB3P2	4%
25	Entrepreneurship in Microbiology	21PIMB31	6%
26	Food and Dairy Microbiology	21PCMB41	60%
27	Industrial And Pharmaceutical Microbiology	21PCMB42	60%
28	Techniques in Food and Dairy Microbiology	21PCMB4P1	8%
29	Techniques in Industrial and Pharmaceutical Microbiology	21PCMB4P2	6%

Total percentage of Revision: 34.17

Total number of Courses: 34

  
PRINCIPAL

