



**H.K.E. SOCIETY'S
SMT. VEERAMMA GANGASIRI DEGREE COLLEGE
FOR WOMEN, GULBARGA - 585 102
NAAC- ACCREDITED "A" GRADE (3rd Cycle)
Affiliated to Akkamahadevi Women's University, Vijayapura**



**Report on
Value added Course
IN
ENTREPRENEURIAL MICROBIOLOGY**

**Organized by
Department of Microbiology & Biotechnology
From 3rd July to 3rd August 2017**



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Date : 27/6/2017

ORDER

Sub: Meeting of Board of studies members

A meeting of the following BOS constituted is here by convened on 27-06-2017 at 11:30 am in the Department of Microbiology, Smt V.G. Degree College for women, Kalaburagi.

BOARD OF APPOINTMENT OF BOS MEMBERS FOR VALUE ADDED COURSE IN ENTREPRENEURIAL MICROBIOLOGY.

1	Dr Ramakrishna, Chairman, Dept of Microbiology, Govt Degree College, Kalaburagi	BOS chairman & Resource person <i>RK</i>
2	Dr Chandrakanth Kelamani, Professor, Dept of Biotechnology Gulbarga University, Kalaburagi	Member <i>CK</i>
3	Dr Sharada Beknal, Assoc. Prof HOD, Dept of Microbiology, V.G Degree College for Women, Kalaburagi	Member & Course co-ordinator <i>SB</i>
4	Smt Shilpa Bandrad Dept of Microbiology, V.G Degree College for Women, Kalaburagi	Resource Person & Member <i>SB</i>

The Chairman and the members are requested to make it convenient to attend the meeting.

S.G. Gounbali
IQAC Coordinator
Smt. Veeramma Gangasiri
College for Women
Kalaburagi - 585 102

[Signature]
PRINCIPAL
Smt. Veeramma Gangasiri
College for Women
Kalaburagi - 585 102

SYLLABUS

Value Added Course in Entrepreneurial Microbiology



Duration: 30 Hours

UNIT I

6hrs

Entrepreneur Development: Definition, Institutes involved, Government contributions to entrepreneur and risk assessment. Essentials of Entrepreneurship - Concepts of market survey. Sales and Marketing principles. Understanding of Government policies: Ethical and Other Legal Issues in microbial products.

UNIT II

6hrs

Industrially important microorganisms: Spirullina, Streptomyces, Dunaliella and yeast food, feed and Baker's yeast, Commercial products obtained from microorganisms – single cell protein, Vitamin B12, β – Carotene and mushroom cultivation.

UNIT III

6hrs

Microbial cells as fermentation products: Enzymes as fermentation products- bacterial and fungal amylases, proteolytic enzymes. Fermented dairy products- buttermilk, cream, yoghurt, kefir, koumiss, acidophilus milk and cheese and their nutritional values.

UNIT IV

6hrs

Agriculturally important microbes: Biofertilizer production- Rhizobium sp., Azospirillum sp., Azotobacter sp.. Chemical fertilizers versus biofertilizers. Biowaste remediation Composting - definition, preparation, filling tray beds, spawning, maintaining optimal temperature, casing, water harvesting and storage.

UNIT V

6hrs

Quality of Microbial Products: Microbiological examinations of Industrial products, Control of microbes for quality products. Food control agencies and its regulations. Pest control systems in industries. Key aspects of hygiene in industries. Inspection methods for raw materials and its products. Indian standard organizations and its procedures.

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Kalaburagi - 585 102

[Signature]
PRINCIPAL
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College for Women
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Textbooks:

T.B-1 Charantimath , PM. Entrepreneurship Development Pearson Education, 2006.

T.B-2 Adams, M.R, and Moss, M.O, Food Microbiology, 2nd Edition, Royal society of chemistry, 2000.

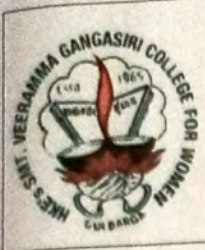
T.B-3 Cassida, L.E., J.R, Industrial Microbiology, New Age International (P) Ltd, New Delhi, 2005

T.B-4 R.C.Dubey, A Textbook of Biotechnology (4th edition), S.Chand and Company Ltd, New Delhi, 2007



S.G. Gounkatti
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List of students attended Value added on ENTREPRENEURIAL MICROBIOLOGY
from 03-07-2017 to 03-08-2017

Sl. No	Reg. No	Name
1.	15414002	Aafrin
2.	15414008	Aliya Anjum
3.	15414014	Anju Biradar
4.	15414016	Ankita Uppin
5.	15414021	Arshiya
6.	15414022	Asha Jyothi
7.	15414027	Atiya Begum
8.	15414028	Ayesha Parveen
9.	15414033	Basavarajeshwari
10.	15414042	Chandrakala
11.	15414048	Divya
12.	15414049	Divyashree
13.	15414052	Gangadevi
14.	15414058	Gundamma
15.	15414068	Jagrati
16.	15414073	Kasturi Swarna Bharati
17.	15414075	Kaveri
18.	15414077	Kavya
19.	15414078	Kavya
20.	15414085	Laxmi
21.	15414086	Laxmi B Patil
22.	15414087	Madhu
23.	15414088	Mahajabeen
24.	15414096	Mayuri
25.	15414099	Menuka
26.	15414102	Nagaratna
27.	15414105	Nandini
28.	15414108	Nashwataha Shehna
29.	15414116	Nikita
30.	15414132	Pooja
31.	15414135	Poornima Shivaraj
32.	15414136	Poornima S. A

S. G. Gounhalli
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33.	15414152	Rashmi
34.	15414153	Rashmi
35.	15414154	Rashmi Reddy
36.	15414161	Saba Kulsum
37.	15414163	Sadia Taheen
38.	15414165	Sakibai
39.	15414166	Salma Begum
40.	15414168	Sana Anjum
41.	15414179	Shagufta Farhath
42.	15414181	Shaista Farheen
43.	15414182	Shraddha
44.	15414185	Shilpa C
45.	15414195	Shagufta Yasmeen
46.	15414198	Shwetarani
47.	15414200	Smita Patil
48.	15414203	Sonali S
49.	15414204	Soumya
50.	15414214	Swati Kulkarni
51.	15414222	Ummatul Maseera
52.	15414224	Varsha
53.	15414225	Vasavi Joshi
54.	15414227	Vidyashree
55.	15414234	Zoya Fatima Baig

S.G. Gounbali

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ಶ್ರೀಮತಿ ಬೀರಮ್ಮ ಗಂಗಸಲಿ ಪದವಿ ಮಹಿಳಾ

ವಿದ್ಯಾರ್ಥಿಗಳ ಹಾಜರಿ ಮತ್ತು
ವಿಷಯ: Entrepreneurial Microbiology

Sign. of the Teacher: B.Sc. V Semester

ಕ್ರ. ಸಂ. Roll No.	ವಿದ್ಯಾರ್ಥಿಗಳ ಹೆಸರು Name with Father's Name	Sign. of the Teacher	Date of Lecturers								
		Sl. No. of Lecturers	1	2	3	4	5	6	7	8	9
15414008	Aafin		A	P	A	P	P	P	P	A	P
15414008	Aliya Anjum		P	P	A	P	P	P	P	P	P
15414014	Anji Binada		P	P	P	P	P	P	P	P	P
016	Anhita Uppin		P	P	P	P	P	P	P	P	P
021	Arshiya		P	P	P	P	P	P	P	P	P
022	Asha Tyothi		P	P	P	P	P	P	P	P	P
027	Aliya Anjum		P	P	P	P	P	P	P	P	P
028	Ayesha Parveen		P	P	P	P	P	P	P	P	P
023	Basavarajeshwari		P	P	P	P	P	P	P	P	P
048	Chandrabala		P	P	P	P	P	P	P	P	P
048	Divya		P	A	P	P	P	P	P	P	P
049	Divyashree		P	A	P	P	P	P	P	P	P
052	Gangadevi		P	P	P	P	P	P	P	P	P
052	Gundamma		P	P	P	P	P	P	P	P	P
068	Jagati		P	P	P	P	P	P	P	P	P
073	Kartiki Swarna Bharti		P	P	P	P	P	P	P	P	P
075	Kaveri		P	P	P	P	P	P	P	P	P
077	Kavya		P	P	P	P	P	P	P	P	P
078	Kavya		P	P	P	P	P	P	P	P	P
085	Laxmi		P	A	P	P	P	P	P	P	P
086	Laxmi B. Patil		P	P	P	P	P	P	P	P	P
087	Madhu		P	P	P	P	A	P	P	P	P
088	Mahajalena		P	P	P	P	P	P	P	P	A
096	Mayyari		P	P	P	P	P	P	P	P	P
099	Menuka		P	P	P	P	P	P	P	P	P
102	Nagaratna		P	P	P	P	P	P	P	P	P
105	Nandini		P	P	P	P	P	P	P	P	P
108	Nashwataba Shehna		P	P	P	P	P	P	P	P	P
116	Nikita		P	P	P	P	P	P	P	P	P
135	Pooja		P	P	P	P	A	P	P	P	P

ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಯ

ಮಹಾವಿದ್ಯಾಲಯ ಹಾಗೂ ಸ್ನಾತಕೋತ್ತರ ಕೇಂದ್ರ

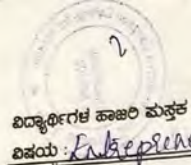


ವರ್ಷ 2017-18

ಕ್ರ. ಸಂ.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
10	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	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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ಶ್ರೀಮತಿ ವೀರಮ್ಮ ಗಂಗಸಿನಿ ಪದವಿ ಮಹಿಳಾ

ವಿದ್ಯಾರ್ಥಿಗಳ ಹಾಜರಿ ಪಟ್ಟಿ
ವಿಷಯ: Entrepreneurial Microbiology

ಹೃದ್ಯೂತಾದ ಕರ್ನಾಟಕ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಯ

ಮಹಾವಿದ್ಯಾಲಯ ಹಾಗೂ ಸ್ನಾತಕೋತ್ತರ ಕೇಂದ್ರ

ವರ್ಷ 2017-18

Roll No.	1	2	3	4	5	6	7	8	9
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Roll No.	Name with Father's Name	1	2	3	4	5	6	7	8	9
15414135	Poornima Shivraj	P	A	A	P	P	P	P	A	P
136	Poornima S A	P	A	P	P	P	P	P	P	P
158	Rashmi	P	P	P	P	P	P	P	P	A
153	Rashmi	P	P	P	P	P	P	P	P	P
154	Rashmi Reddy	P	P	P	P	P	P	P	P	P
161	Saba Kulsum	P	P	P	P	P	P	P	P	P
163	Sadia Tahera	P	P	P	P	P	P	P	P	P
167	Sakibai	P	P	P	P	P	P	P	P	P
166	Salma Begum	P	P	P	P	P	P	P	A	P
168	Sana Anjum	P	P	P	P	P	P	P	P	A
179	Shagunfa Farhath	P	P	P	P	P	P	P	P	A
181	Shakhta Farheen	P	R	P	P	P	P	P	P	P
182	Shardha	P	P	P	P	P	P	P	A	P
185	Shilpa C	P	P	P	P	P	P	P	P	P
187	Shagunfa Yameen	P	P	P	P	P	P	P	P	P
188	Shraddhasri	P	P	P	P	P	A	P	P	P
200	Smita Patil	P	A	P	P	P	P	P	P	P
203	Sonali	P	P	P	P	P	P	P	P	P
204	Soumya	P	P	P	P	P	P	P	P	P
214	Susati Kulkarni	P	P	P	P	P	P	P	P	P
222	Ummatul Maseera	P	P	P	P	P	P	P	P	P
224	Vaisha	P	P	P	P	P	P	P	P	P
225	Varavi Toshi	P	P	P	P	P	P	P	P	P
227	Vidyaashree	P	P	P	P	P	P	P	P	P
234	Zoya Fatima Baig	P	P	A	P	P	P	P	P	P

Roll No.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
10	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
14	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
16	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

S. G. Gumbali
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Hyderabad Karnataka Education Society's



**Smt. Veeramma Gangasiri College for Women
Kalaburagi - 585 102**

Certificate

This is to certify that Kum/Kumari MAHAJABEEN
of B.SC V semester has completed Value Added/Add-on Course
in ENTREPRENEURIAL MICROBIOLOGY organized by Department of
MICROBIOLOGY, Smt. Veeramma Gangasiri College for Women, Kalaburagi
from 03/07/2017 to 03/08/2017

[Signature]

Course Coordinator

[Signature]

Principal



Hyderabad Karnataka Education Society's



**Smt. Veeramma Gangasiri College for Women
Kalaburagi - 585 102**

Certificate

This is to certify that Kum/Kumari NYANDINI
of B.SC IV SEMESTER has completed Value Added/Add-on Course
in ENTREPRENEURIAL MICROBIOLOGY organized by Department of
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from 03/07/2017 to 03/08/2017

Course Coordinator

Principal