

D.B.F. Dayanand College of Arts and Science, Solapur.

Departmental Profile

1) **Name of Department: Microbiology**

2) **Establishment: 1981**

3) **List of all Heads:**

Sr. No.	Name of Head	Tenure
1	Mrs. L.S.Patil	1981-82
2	Dr.M. S.Shejul	1983-95
3	Dr.D.G.Kadam	Jan 1996- Dec 1996
4	Dr. M. S. Shejul	1997- 2005
5	Dr.D.G.Kadam	2005 onwards

4) **List of Teaching Staff:**

Sr. No.	Name of Staff	Qualification	Designation	Experience
1	Dr. D. G .Kadam	M.Sc., Ph.D.	Associate Professor	35
2	Mrs. T.T Bapat	M.Sc.	Associate Professor	34
3	Dr. Mrs. S.N.Deshpande	M.Sc.Ph.D.	Associate Professor	31
4	Mrs. N. R. Damle	M.Sc.	Associate Professor	31
5	Shri. S.H.Kamble	M.Sc. NET	Assistant Professor	8

5) **List of Supporting staff:**

Sr. No.	Name of Staff	Qualification	Designation	Experience
1	Shri. M. S.Vagdari	B.Com.	Laboratory Assistant	22
2	Mrs. M. S. Birajdar	S.S.C.	Laboratory Attendant	17
3	Shri. S.G. Sarsambe	S.S.C.	Laboratory Attendant	17

6. Courses run:-B.Sc. in Microbiology, M.Sc. in Microbiology and Ph.D. in Microbiology

7. List of college certificate Course: - Fermentation Technology

8. Gold Medalist, University ranker Students list:-

Sr. No.	Academic Year	Name of Student (Merit Holders)	Percentage of marks (%)	University Rank
1	2013-14	Mr. Lagshetti Ajay C.	91.88	II nd in University Merit list and I st in the subject
2	2014-15	Miss Magar D.S.	83.00	
3	2015-16	Miss Surpure S.N.	86.33	Gold Medal
4	2016-17	Mr. Mane V. D.	89.75	Gold Medal
5	2017-18	Miss Rajashri S. Akkalkote	89	Gold Medal

9. Special achievements:

- Department is recognized by Solapur University as Research Center/Place in Microbiology.
- Department has M.Sc. Microbiology course is started from June, 2018.
- Department has gold medal in Microbiology winning students from last consecutive three years.

10. Faculty wise Time Table

TIME TABLE 2017-18

FIRST TERM

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10.15 to 11.05	–	–	B.Sc-II NRD(12)	B.Sc.II SND(12)	–	–
11.05 to 11.55	–	–	–	–	–	–
11.55 to 12.45	–	–	–	–	–	–
12.45 pm to 1.35pm	B.Sc-I TTB(18)	B.Sc-I TTB(18)	–	B.Sc-I SHK (18)	B.Sc-I SHK(18)	B.Sc-I SHK (18)
	B.Sc-III SND(17)	B.Sc-III SND(17)	B.Sc-III SHK(17)	B.Sc-III NRD(17)	B.Sc-III NRD(17)	B.Sc-III NRD(17)
1.35pm To 2.25pm	B.Sc.II NRD(18) B.Sc.III SHK(17)	B.Sc.II NRD(18) B.Sc.III SHK(17)	B.Sc.III DGK(17)	B.Sc.III DGK(17)	B.Sc.II SND(18) B.Sc.III TTB(17)	B.Sc.II SND(18) B.Sc.III TTB(17)

PRACTICALS

7.30 am to 10.15 am	B.ScII (P) DGK	B.Sc.II (P) DGK	B.Sc II SND	B.Sc II SND		
2.40 pm to 6.00 pm	B.Sc.I NRD	B.Sc.I SHK	B.Sc.I TTB			
			B.Sc. III All 5	B.Sc. III All 5	B.Sc. III All 5	B.Sc. III All 5

TIME TABLE 2017-18

SECOND TERM

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10.15 to 11.05	-	-	B.Sc-II SHK(12)	B.Sc.II TTB(12)	-	-
11.05 to 11.55	-	-	-	-	-	-
11.55 to 12.45	-	-	-	-	-	-
12.45 pm to 1.35pm	B.Sc-I SND(18)	B.Sc-I SND(18)	-	B.Sc-I NRD (18)	B.Sc-I NRD(18)	B.Sc-I SND/NRD (18)
	B.Sc-III NRD(17)	B.Sc-III NRD(17)	B.Sc-III TTB/NRD(17)	B.Sc-III SND(17)	B.Sc-III SND(17)	B.Sc-III SHK/DGK(17)
1.35pm To 2.25pm	B.Sc.II SHK(18) B.Sc.III TTB(17)	B.Sc.II SHK(18) B.Sc.III TTB(17)	B.Sc.III DGK(17)	B.Sc.III DGK(17)	B.Sc.II TTB(18) B.Sc.III SHK(17)	B.Sc.II TTB(18) B.Sc.III SHK(17)

PRACTICALS

7.30 am to 10.15 am	B.ScII (P) DGK	B.Sc.II (P) DGK	B.Sc II SND	B.Sc II SND		
2.40 pm to 6.00 pm	B.Sc.I NRD	B.Sc.I SHK	B.Sc.I TTB			
			B.Sc. III All 5	B.Sc. III All 5	B.Sc. III All 5	B.Sc. III All 5

11. Facilities:-

- **Department has well equipped laboratory with sophisticated instruments such as**
 - 1) Laminar Air flow
 - 2) Laboratory scale fermentor
 - 3) High Speed Centrifuge
 - 4) Binocular with camera Microscopes
 - 5) Ultra Violet Chamber
 - 6) Large sized Autoclave
 - 7) Hot air oven
 - 8) Bacteriological Incubator
 - 9) BOD Incubator
 - 10) Water Bath
 - 11) Digital pH meter
 - 12) Digital Weighing Balance
 - 13) Mechanical Shaker
 - 14) Distillation Unit
 - 15) Spectrophotometer
 - 17) Refrigerator
 - 18) Anaerobic jar
 - 19) Micropipette
 - 20) Electrophoresis Unit (Protein and DNA)
- **Department has filtered Drinking water facilities**
- **Department has library facility**
- **Department has scientists photo gallery**
- **Department has display unit**
- **Department has extension activity facility e.g. Blood group testing, Hemoglobin testing and drinking water testing facility**

12. Research area:-

- Medical Microbiology
- Waste Management
- Industrial Microbiology
- Agricultural Microbiology and Environmental
- Molecular Biology and Biochemistry

13. Publication number-

- Journal- 35
- Conference/ Workshop- 25
- Books- 10

14. Department has organized Conference/workshop/ Seminars as follows

Sr. No.	Title	International /National/ State/ University Level	Funding Agency	Amount	Academic Year
1.	Microbial Technology for Sustainable Agriculture	National	UGC	60000	2005-06
2.	Recent trends in Life Science	University	Solapur University, Solapur	5000	2012-13
3.	One day workshop on Recent trends in Bioinformatics	University	Self funded	-	2016-17
4.	Microbial Technology for sustainable development	National	Self funded	-	2017-18

15. Research projects completed by the department

Sr. No.	Title of Project	Principal Investigator	Funding Agency	Year of Sanctioned	Year of Completion	Amount
1.	Studies on Microbiological and biochemical aspects of vermicompost and vermiwash obtained from Vermicomposting of Agricultural waste by <i>Eudrilus eugeniae</i>	Dr. D. G. Kadam	U.G.C File no-47-064/06 (WRO)	2006	2008	65000
2.	Evaluation of antimicrobial potential of <i>Pseudocalymma alleaceum</i>	Mrs. T. T. Bapat	U.G.C File no-47-1021/09 (WRO)	2009	2011	90000
3.	Determination of susceptibility to dental carries by Snyder's Test and Estimation of lactobacillus count in School going children's in Solapur City	Mrs. S .N. Deshpande	U.G.C File no-47-962/09 (WRO)	2009	2011	130000
4.	Studies on potential of Rhizobacteria Associated with Medicinal plant roots.	Mrs. N.R. Damle	U.G.C File no-47-1624/10 (WRO)	2009	2011	110000

6) List of research students working/ awarded

Sr. No	Name of the student	Name of the Guide	Registration No.	Research Topic	Status(ongoing/Awarded /Submitted)
1	Mr. Satish Dinkarrao Deokar	Dr.D.G.Kadam	SUS/BCUD/ PGBUTR/20 10-11 /2936 DT.13/7/2011	Studies on antibiotic resistance patterns of bacterial isolates from urinary tract infections in Barshi tehsil, Maharashtra	Ongoing
2	Dr.Mrs. S.N.Deshpande	Dr.D.G.Kadam	SUS/BCUD/ PGBUTR/20 10-11/ 5191. DT.5/10/2010	Evaluation of selected herbal extracts for management of dental caries	Awarded
3	Mrs.Vaishali Arun Garagade	Dr.D.G.Kadam	SUS/BCUD/ PGBUTR/20 10-11/ 5191. DT.5/10/2010	Efficacy of some medicinal plant extracts for management of Bacterial blight of pomegranate (<i>Punica granatum L.</i>)	Awarded
4	Mrs. Archana Arun Kharat	Dr.D.G.Kadam	SUS/BCUD/ PGBUTR/10 879 DT.15/12/2012	Isolation ,antibiotypes and genetic characterization of the extended spectrum beta lactam enteric bacteria from Osmanabad and Solapur District	Ongoing
5	Ms.Rohini Ravindra Shivsharan	Dr.D.G.Kadam	SUS/BCUD/ PGBUTR/10 879 DT.15/12/2012	Studies on bioethanol Production: Improvement of ethanol production by enhancement of biomass, nutrient supplementation and mutagenesis of native <i>Saccharomyces cerevisiae</i>	Ongoing
6	Mr. Shekhar. Shamrao. Lokare	Dr.D.G.Kadam	SUS/BCUD/ PGBUTR/20 10-11/ 95191. DT.5/10/2010	Studies on thermostable Lipases of alkaliphilic bacteria isolated from an alkaline lake	Awarded
7	Mr. Nitin Devidas Deshmukh	Dr.D.G.Kadam	SUS/BCUD PGBUTR/20 12-13/8474 DT.24/9/2012	Studies on biosurfactant based Nanoparticles for evaluating their efficacy against selected pathogens	Ongoing

17) Placement Cell: Nil

Sr. No	Date	Events	No. of students appeared	No. of Students selected

18) NET/SET/GATE qualified students:

Sr.No.	Name	Year of degree passing	Year of NET/SET/GATE qualifying exam
1	Mr. Ajay Lagshetti	2016	NET
2	Mrs. Shivsharan Rohini	2016	SET
3	Chakre Gangadhar D.	2016	SET

7) Future plans of department:

Department proposes to start M.Sc. Microbiology course.

Department proposes to start COP in Microbiology.

Supporting staff Profile

1.Name: Mrs. Meenakshi Shivanand Birajdar
2.Designation: Lab. Attendant
3.Educational Qualification: 10th Pass
4.Year of Joining: 01/04/2000

1.Name: Sh. Shivappa Gurappa Sarsambe
2.Designation: Lab. Attendant
3.Educational Qualification: 10th Pass
4.Year of Joining: 13/04/2000

1.Name: Sh. Vagdari Mahadeo Sidhappa
2.Designation: Library Attendant
3.Educational Qualification: B.Com.
4.Year of Joining: 03/08/1995

**Head
Department of Microbiology**