

**Post Graduate Teaching: Courses offered by department in Post Graduate Programme
(As per 4th Dean's Committee)**

Sr. No.	Code	Course Title	Credits	Semester
1	MICRO 501* @	Principles of microbiology	3+1	Odd
2	MICRO 503*	Microbial genetics	2+1	
3	MICRO 511	Biofertilizer technology	1+1	
4	MICRO 508	Environmental microbiology	2+1	
5	MICRO 509**	Plant-microbe interactions	3+0	
6	MICRO 510	Industrial microbiology	2+1	
7	MICRO 512	Cyanobacterial and algal biotechnology	2+0	
8	MBB 603	Advances in microbial biotechnology	3+0	
9	MICRO 591	Master's seminar	1+0	
10	MICRO 599	Master's research	20	
11	MICRO 691	Doctoral seminar -I	1+0	
12	MICRO 692	Doctoral seminar –II	1+0	
13	MICRO 699	Doctoral research	45	
14	MICRO 502*	Microbial physiology and metabolism	3+1	Even
15	MICRO 505*	Microbial biotechnology	2+1	
16	MICRO 506*	Food and dairy microbiology	2+1	
17	MICRO 504*\$	Soil microbiology	2+1	
18	MICRO 507	Bacteriophages	1+1	
19	MICRO 601**	Advances in fermentation	2+1	
20	MICRO 602**	Advanced microbial physiology	2+0	
21	MICRO 603**	Regulation of microbial biosynthesis	2+0	
22	MICRO 604**	Current topics in soil microbiology	2+0	
23	MICRO 591	Master's seminar	1+0	
24	MICRO 599	Master's research	20	
25	MICRO 691	Doctoral seminar –I	1+0	
26	MICRO 692	Doctoral seminar -II	1+0	
27	MICRO 699	Doctoral research	45	

* Core courses for master's program; ** Core courses for doctorate program

@ Cross listed with Biotechnology MBB 554; # Cross listed with Biotechnology MBB 506; \$ Cross listed with Soils 506.

Facilities Available for Post Graduate Teaching and Research

Sr No	Name of Class rooms	Sitting Capacity	Functional utility / nature of use	Existing Facilities
A. Classrooms				
1	PG classroom	30	Used in PG teaching	Chairs with side handle, white board, projector, computer and podium
2	Conference hall	90	Used for PG teaching, seminar, training, conference	Chairs, podium, mike and sound system with projector and motorized screen
3	Departmental Library	05	Students can refer books of Microbiology subject	Chair, Table, Library cupboards having more than hundred books and 51 thesis of PG students for reference
B. Laboratories				
4	PG Laboratory	60.8 m ² (15 students at a time)	Conducting practical classes of postgraduate and polytechnic students	Autoclave, Laminar air flow, Plant growth chamber, incubator, water bath,, microscope, tissue culture rack, working table, storage for chemicals, glass wares
5	Molecular laboratory	16.0 m ²	For molecular analysis of microbial and soil samples	Gradient PCR, Real Time PCR, transilluminator, Bio-spectrophotometer, cooling microcentrifuge, Gel dryer, Denaturing Gradient Gel Electrophoresis, Gel documentation system
6	Instrumentation Lab-2	18.9 m ²	For placing instruments useful for PG research	Basket centrifuge, UV-lyophilizer, Visible spectrophotometer, microwave oven
7	Chromatography laboratory	16.0 m ²	For analysis of the post graduate research samples through chromatographic	GC system, HPLC, CO ₂ incubator, sonic bath
C. Processing / Storage facility				
1	Backyard shade		For conducting pot experiments	
2	Cold room on first floor	12.0 m ²	For storage and preservation of microbial cultures and bulk fermented broth	

Note: Department has two floored building for UG & PG teaching as well as research facility total 973.2 m².

Practical Exposure to Postgraduate Students



Microbial Biotechnology Laboratory



GC & HPLC Laboratory



PG Working Laboratory



Walk In Cold Room



Central Instrument Laboratory