

CBCS SYLLABUS
FOR
THREE YEARS UNDER-GRADUATE COURSE
IN
MICROBIOLOGY (HONOURS)
(w.e.f. 2017)



BANKURA UNIVERSITY
BANKURA
WEST BENGAL
PIN 722155

**STRUCTURE IN MICROBIOLOGY (HONOURS)****SEMESTER – I**

Course Code	Course Title	Credit	I.A.	Marks			No. of Hours		
				ESE		Total	Lec.	Tu.	Pr.
				Th	Pract				
SH/MCB/ 101/C-1	Introduction to Microbiology and Microbial Diversity	6	10	25	15	50	4		4
SH/MCB/ 102/C-2	Bacteriology	6	10	25	15	50	4		4
SH/MCB/ 103/GE-1	Introduction and scope of Microbiology	6	10	25	15	50	4		4
ACSHP/10 4/ AECC-1	Environmental Studies	4	10	25	15	50	4		
Total in Semester – I		22	40	160		200	16		12

**SEMESTER –II**

Course Code	Course Title	Credit	I.A.	Marks			No. of Hours		
				ESE		Total	Lec.	Tu.	Pr.
				Th	Pract				
SH/MCB/ 201/C-3	Biochemistry	6	10	25	15	50	4		4
SH/MCB/ 202/C-4	Virology	6	10	25	15	50	4		4
SH/MCB/ 203/GE-2	Bacteriology and Virology	6	10	25	15	50	4		4
ACSHP/20 4/ AECC-2	English/Hind/MIL	2	10	25	15	50	2		
Total in Semester – II			40	160		200	14		12

**SEMESTER –III**

Course Code	Course Title	Credit	I.A.	Marks			No. of Hours		
				ESE		Total	Lec.	Tu.	Pr.
				Th	Pract				
SH/MCB/ 301/C-5	Microbial Physiology and Metabolism	6	10	25	15	50	4		4
SH/MCB/ 302/ C-6	Cell Biology	6	10	25	15	50	4		4
SH/MCB/ 303/C-7	Molecular Biology	6	10	25	15	50	4		4
SH/MCB/ 304/GE-3	Microbial Metabolism	6	10	25	15	50	4		4
SH/MCB/ 305/SEC- 1	Microbiological analysis of Air and Water	2	10	25	15	50	2		
Total in Semester – III		26	50	200		250	18		16

**SEMESTER –IV**

Course Code	Course Title	Credit	I.A.	Marks			No. of Hours		
				ESE		Total	Lec.	Tu.	Pr.
				Th	Pract				
SH/MCB/4 01/C-8	Microbial Genetics	6	10	25	15	50	4		4
SH/MCB/4 02/C-9	Environmental Microbiology	6	10	25	15	50	4		4
SH/MCB/4 03/C-10	Food and Dairy Microbiology	6	10	25	15	50	4		4
SH/MCB/4 04/GE-4	Medical Microbiology and Immunology	6	10	25	15	50	4		4
SH/MCB/ 405/SEC- 2	Microbial diagnosis in health clinics	2	10	25	15	50	2		
Total in Semester – IV		26	50	200		250	18		16

**SEMESTER – V**

Course Code	Course Title	Credit	I.A.	Marks			No. of Hours		
				ESE		Total	Lec.	Tu.	Pr.
				Th	Pract				
SH/MCB/ 501/C-11	Industrial Microbiology	6	10	25	15	50	4		4
SH/MCB/ 502/C-12	Immunology	6	10	25	15	50	4		4
SH/MCB/ 503/DSE- 1	Bioinformatics	6	10	25	15	50	4		4
SH/MCB/ 504/DSE- 2	Dissertation Work with Seminar	6	10	25	15	50	4		4
Total in Semester – V		24	40	160		200	16		16

**SEMESTER – VI**

Course Code	Course Title	Credit	I.A.	Marks			No. of Hours		
				ESE		Total	Lec.	Tu.	Pr.
				Th	Pract				
SH/MCB/601/C-13	Medical Microbiology	6	10	25	15	50	4		4
SH/MCB/602/C-14	Recombinant DNA Technology	6	10	25	15	50	4		4
SH/MCB/603/DSE-3	Microbes in Sustainable Agriculture and Development	6	10	25	15	50	4		4
SH/MCB/604/DSE-4	Instrumentation and Bio-techniques	6	10	25	15	50	4		4
Total in Semester – VI		24	40	160		200	16		16

SH=Science Honours, MCB = Microbiology, ACSHP= Arts commerce Science Honours Pass, C= Core Course, AECC= Ability Enhancement Compulsory Course, SEC= Skill Enhancement Course, GE= Generic Elective, DSE= Discipline Specific Elective, IA= Internal Assessment, ESE= End-Semester Examination, Lec.=Lecture, Tu.= Tutorial, and Prc.=Practical