

**ANNEXURE M. Sc. MICROBIOLOGY**

Equivalence of Syllabus / papers between CBS & CBCS syllabus for desirous students (CBS Pattern students (introduced in the Year 2012-2013) in CBCS Pattern (introduced in the year 2015-16 at M.Sc Semester I and II and in the year 2016-17, at M.Sc. Semester –III and Semester IV

If the candidate has failed in any of the papers mentioned below (As described in Point no. 22 'b', 'c', 'd', and 'e')						Then, the candidate shall appear and clear the paper shown in the respective row as equivalent paper						
M.Sc. Microbiology CBS Pattern : Semester -I						M.Sc. Microbiology Choice Based Credit System ( CBCS)						
S. No.	Code No.	Paper	Name of Paper	Total Marks	Credits	Equivalence To	Sem	Code No.	Paper	Name of Paper	Total Marks	Credits
01	MB1-T001	Paper I	MICROBIAL DIVERSITY AND EVOLUTION (MDE)	100	4		Sem - III	3T3	Paper III	MICROBIAL DIVERSITY, EVOLUTION AND ECOLOGY (MDEE) – 1	80+ 20	4
02	MB1-T002	Paper II	MICROBIAL METABOLISM (MM)	100	4		Sem -I	1T1	Paper I	MICROBIAL METABOLISM (MM)	80+20	4
03	MB1-T003	Paper III	ENZYMOLGY AND TECHNIQUES (ET)	100	4		Sem -I	1T2	Paper II	ENZYMOLGY AND TECHNIQUES (ET)	80+20	4
04	MB1-T004	Paper IV	MICROBIAL ECOLOGY (ME)	100	4		Sem - IV	4T3	Paper III	MICROBIAL DIVERSITY, EVOLUTION AND ECOLOGY (MDEE) – 2	80+20	4
05	MB1-LAB1	Practical-I	LABORATORY EXERSICE 1	80+ 20	4		Sem -I	1P1	Practical - I	LABORATORY EXERSICE - 1	100	4
06	MB1-LAB2	Practical-II	LABORATORY EXERSICE 2	80+20	4		Sem - II	2P2	Practical - III	LABORATORY EXERSICE - 2	100	4
07	MB1-INT1	Seminar-I	SEMINAR	25	1		Sem -I	1S1	SEMINAR	SEMINAR	25	1
M.Sc. Microbiology CBS Pattern : Semester -II						M.Sc. Microbiology Choice Based Credit System ( CBCS)						
S. No.	Code No.	Paper	Name of Paper	Total Marks	Credits	Equivalence To	Sem	Code No.	Paper	Name of Paper	Total Marks	Credits
01	MB2-T005	Paper V	ADVANCE TECHNIQUES IN MICROBIOLOGY (ATM)	100	4		Sem -I	1T3	Paper III	ADVANCE TECHNIQUES IN MICROBIOLOGY (ATM)	80+20	4

02	MB2-T006	Paper VI	MEMBRANE STRUCTURE AND SIGNAL TRANSDUCTION (MSST)	100	4	Sem - I	1T4	Paper IV	MEMBRANE STRUCTURE AND SIGNAL TRANSDUCTION (MSST)	80+20	4	
03	MB2-T007	Paper VII	MICROBIAL METHODS FOR ENVIRONMENT MANAGEMENT (M MEM)	100	4	Sem - II	2T1	Paper I	MICROBIAL METHODS FOR ENVIRONMENT MANAGEMENT (M MEM)	80+20	4	
04	MB2-T008	Paper VIII	MICROBIAL METABOLITES (MMT)	100	4	Sem - II	2T2	Paper II	MICROBIAL METABOLITES (MMT)	80+20	4	
05	MB2-LAB3	Practical-III	LABORATORY EXERSICE 3	80+20	4	Sem - I	1P2	Practical - II	LABORATORY EXERSICE 2	100	4	
06	MB2-LAB4	Practical-IV	LABORATORY EXERSICE 4	80+20	4	Sem - I	1P1	Practical - I	LABORATORY EXERSICE 1	100	4	
07	MB2-INT2	Seminar-II	SEMINAR	25	1	Sem - II	2S1	SEMINAR	SEMINAR	25	1	
<b>M.Sc. Microbiology CBS Pattern : Semester -III</b>						<b>M.Sc. Microbiology Choice Based Credit System ( CBCS)</b>						
<b>S. No.</b>	<b>Code No.</b>	<b>Paper</b>	<b>Name of Paper</b>	<b>Total Marks</b>	<b>Credits</b>	<b>Equivalence To</b>	<b>Sem</b>	<b>Code No.</b>	<b>Paper</b>	<b>Name of Paper</b>	<b>Total Marks</b>	<b>Credits</b>
01	MB3-T009	Paper IX	MEDICAL MICROBIOLOGY AND PARASITOLOGY (MMP)	100	4		Sem - II	2T3	Paper III	MEDICAL MICROBIOLOGY AND PARASITOLOGY (MMP)	80+20	4
02	MB3-T010	Paper X	IMMUNOLOGY AND IMMUNODIAGNOSTICS (IID)	100	4		Sem - II	2T4	Paper IV	IMMUNOLOGY AND IMMUNODIAGNOSTICS (IID)	80+20	4
03	MB3-T011	Paper XI	BIOINFORMATICS (BIF)	100	4		Sem - III	3T3	Paper III	BIOINFORMATICS (BIF) - 1	80+20	4
04	MB3-T012	Paper XII	MICROBIAL FERMENTATION TECHNOLOGY (MFT)	100	4		Sem - IV	4T2	Paper II	MICROBIAL FERMENTATION TECHNOLOGY (MFT)	80+20	4

05	MB3-LAB5	Practical V	LABORATORY EXERSICE 5	80+20	4	Sem - II	2P1	Practical – III	LABORATORY EXERSICE 1	100	4	
06	MB3-LAB6	Practical VI	LABORATORY EXERSICE 6	80+20	4	Sem - II	2P2	Practical – IV	LABORATORY EXERSICE 2	100	4	
07	MB3-INT3	Seminar-III	SEMINAR	25	1	Sem - III	3S1	Seminar	Seminar	25	1	
<b>M.Sc. Chemistry Microbiology CBS Pattern : Semester -IV</b>						<b>M.Sc. Subject Microbiology Choice Based Credit System (CBCS)</b>						
<b>S. No.</b>	<b>Code No.</b>	<b>Paper</b>	<b>Name of Paper</b>	<b>Total Marks</b>	<b>Cred its</b>	<b>Equivalence To</b>	<b>Sem</b>	<b>Code No.</b>	<b>Paper</b>	<b>Name of Paper</b>	<b>Total Marks</b>	<b>Credits</b>
01	MB4-T013	Paper XIII	MOLECULAR BIOLOGY AND GENETICS (MBG)	100	4		Sem - III	3T1	Paper I	MOLECULAR BIOLOGY AND GENETICS (MBG)	80+20	4
02	MB4-T014	Paper XIV	VIROLOGY (VIR)	100	4		Sem - IV	4T1	Paper I	VIROLOGY (VIR)	80+20	4
03	MB4-T015	Paper XV	DRUGS, VACCINES AND DELIVERY SYSTEMS (DVD)	100	4		Sem - III	3T4	Paper IV	DRUG AND DISEASE MANAGEMENT (DDM)	80+20	4
04	MB4-T016	Paper XVI	RECOMBINANT DNA TECHNOLOGY (RDT)	100	4		Sem - III	3T2	Paper II	RECOMBINANT DNA TECHNOLOGY AND NANOBIO TECHNOLOG Y (RDTN)	80+20	4
05	MB4-LAB7	Practical VII	LABORATORY EXERSICE 7	80+20	4		Sem - III	3P1	Practical – V	LABORATORY EXERSICE 1	100	4
06	MB4-PROJ	Project	PROJECT WORK	80+20	4		Sem - IV	4PROJ 1	PROJECT	PROJECT WORK	100	4
07	MB4-INT4	Seminar IV	SEMINAR	25	1		Sem - IV	4S1	SEMINAR	SEMINAR	25	1