SRI SANKARA ARTS AND SCIENCE COLLEGE
(Autonomous)
Enathur, Kanchipuram – 631 561

Programme Specific Outcome – Course Outcome Matrix

PSO-CO matrix

DEPARTMENT OF ENGLISH

B. A ENGLISH

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
The Elizabethan Age	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓				
Milton and Neo-classical Age	CO-1	✓	✓		✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Background to the Study of English Literature	CO-1	✓			✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
The Romantic Age	CO-1	✓				
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5	✓	✓			
The Victorian Age	CO-1		✓		✓	✓
	CO-2		✓	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		✓
	CO-5		✓	✓	✓	
The Social History of England	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3		✓			
	CO-4	✓			✓	
	CO-5			✓		✓
The Twentieth Century Literature – I	CO-1	✓				
	CO-2	✓		✓		
	CO-3		✓		✓	
	CO-4	✓			✓	✓
	CO-5	✓		✓		

Course	CO					
Literary Criticism	CO-1		✓			✓
	CO-2		✓			
	CO-3		✓	✓		✓
	CO-4		✓	✓		✓
	CO-5		✓	✓		✓
The History of English Literature I	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	
	CO-3		✓	✓		✓
	CO-4					✓
	CO-5			✓	✓	
The Twentieth Century Literature – II	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓		✓		
	CO-4			✓		
	CO-5			✓	✓	
The History of English Language	CO-1	✓	✓		✓	
	CO-2	✓	✓	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		
	CO-5	✓	✓	✓	✓	✓
The History of English Literature – II	CO-1	✓			✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Shakespeare I	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓	✓	✓		✓
	CO-4		✓	✓		✓
	CO-5		✓	✓	✓	✓
American Literature I	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
An Introduction to Linguistics and Phonetics	CO-1	✓		✓	✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓		✓
Indian Writing in English	CO-1	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	✓
	CO-5	✓	✓		✓	✓

Course	CO					
World Classics in Translation	CO-1		✓			✓
	CO-2		✓			✓
	CO-3		✓			✓
	CO-4		✓			✓
	CO-5		✓	✓		✓
Shakespeare II	CO-1		✓	✓		✓
	CO-2		✓	✓	✓	
	CO-3		✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5		✓	✓	✓	✓
American Literature II	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓				
Modern Critical Theories – An Introduction	CO-1	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓			✓	
Postcolonial Literature	CO-1		✓			✓
	CO-2		✓	✓		✓
	CO-3		✓			
	CO-4		✓			✓
	CO-5		✓			
Journalism	CO-1		✓			✓
	CO-2		✓	✓		✓
	CO-3		✓			
	CO-4		✓			✓
	CO-5		✓			

M. A ENGLISH

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
British Literature I	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓				
American Literature I	CO-1	✓	✓		✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Indian Writing in English	CO-1	✓			✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Classics in Translation	CO-1	✓				
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5	✓	✓			
English for Careers	CO-1		✓		✓	✓
	CO-2		✓	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		✓
	CO-5		✓	✓	✓	
British Literature II	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3		✓			
	CO-4	✓			✓	
	CO-5			✓		✓
American Literature II	CO-1	✓				
	CO-2	✓		✓		
	CO-3		✓		✓	
	CO-4	✓			✓	✓
	CO-5	✓		✓		
History of English Language and Introduction to Linguistics	CO-1		✓			✓
	CO-2		✓			
	CO-3		✓	✓		✓
	CO-4		✓	✓		✓
	CO-5		✓	✓		✓
Postcolonial Literature	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	
	CO-3		✓	✓		✓

Subject	CO					
	CO-4					✓
	CO-5			✓	✓	
Literature: Analysis, Approaches and Applications	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓		✓		
	CO-4			✓		
	CO-5			✓	✓	
Shakespeare Studies	CO-1	✓	✓		✓	
	CO-2	✓	✓	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		
	CO-5	✓	✓	✓	✓	✓
British Literature III	CO-1	✓			✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Comparative Literature	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓	✓	✓		✓
	CO-4		✓	✓		✓
	CO-5		✓	✓	✓	✓
Gender Studies	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
English Language Teaching	CO-1	✓		✓	✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓		✓
British Literature IV	CO-1	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	✓
	CO-5	✓	✓		✓	✓
General Essay	CO-1		✓			✓
	CO-2		✓			✓
	CO-3		✓			✓
	CO-4		✓			✓
	CO-5		✓	✓		✓
Literary Criticism	CO-1		✓	✓		✓
	CO-2		✓	✓	✓	
	CO-3		✓	✓	✓	✓

	CO-4	✔	✔	✔	✔	
	CO-5		✔	✔	✔	✔
Mass Communication and Film Studies	**CO-1**	✔		✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔				
Project Viva voce	**CO-1**	✔			✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔			✔	

DEPARTMENT OF MATHEMATICS

B. SC MATHEMATICS

Core paper	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Algebra & Trigonometry UMSM11E	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Differential Calculus UMSM12E	CO-1	✓		✓		
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Integral Calculus UMSM21E	CO-1	✓				
	CO-2	✓				✓
	CO-3	✓			✓	
	CO-4	✓			✓	✓
	CO-5	✓		✓		✓
Differential Equation UMSM21E	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓			✓	
	CO-5	✓			✓	
Fourier series and Integral Transform	CO-1	✓			✓	
	CO-2	✓				
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Analytical Geometry	CO-1	✓		✓	✓	✓
	CO-2	✓				✓
	CO-3	✓		✓	✓	✓
	CO-4	✓				
	CO-5	✓				
Allied Mathematical Statistics -I	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓	✓	✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓	✓	✓	✓	
Numerical Methods	CO-1	✓				
	CO-2	✓				
	CO-3	✓				
	CO-4	✓		✓		
	CO-5	✓		✓		
Statics	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓				

Subject	CO					
	CO-4	✔			✔	
	CO-5	✔		✔		
Allied Mathematical Statistics -II	CO-1	✔	✔	✔	✔	✔
	CO-2	✔	✔	✔	✔	
	CO-3	✔	✔	✔	✔	
	CO-4	✔				
	CO-5	✔	✔	✔	✔	
Allied Practical Mathematical Statistics –I & II	CO-1	✔	✔	✔	✔	✔
	CO-2	✔	✔	✔	✔	
	CO-3	✔	✔	✔	✔	
	CO-4	✔				
	CO-5	✔	✔	✔	✔	
Algebra-I	CO-1	✔			✔	
	CO-2	✔			✔	
	CO-3	✔		✔	✔	
	CO-4	✔		✔		
	CO-5	✔		✔	✔	
Real Analysis-I	CO-1	✔		✔		
	CO-2	✔			✔	
	CO-3	✔		✔	✔	
	CO-4	✔		✔		
	CO-5	✔		✔	✔	
Dynamics	CO-1	✓				
	CO-2	✓	✓			
	CO-3	✓	✓			
	CO-4	✓	✓		✓	
	CO-5	✓		✓	✓	✓
Elective-1 Graph theory	CO-1	✔		✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔		✔	✔	
	CO-4	✔			✔	
	CO-5	✔				
Elective-1 C Programming	CO-1	✔				
	CO-2	✔		✔	✔	
	CO-3	✔		✔	✔	
	CO-4	✔			✔	
	CO-5	✔		✔		✔
Algebra-II	CO-1	✓				
	CO-2	✓				
	CO-3	✓	✓	✓		✓
	CO-4	✓		✓		
	CO-5	✓	✓	✓	✓	✓
Real Analysis-II	CO-1	✔		✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔				
	CO-4	✔				
	CO-5	✔		✔	✔	
	CO-1	✔		✔	✔	

Subject	CO					
Complex Analysis	**CO-2**	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓				
	CO-5	✓		✓	✓	
Operation Research	**CO-1**	✓		✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Elective-1 Matrix Theory	**CO-1**	✓				
	CO-2	✓		✓		
	CO-3	✓		✓		
	CO-4	✓				
	CO-5	✓				✓

M. SC MATHEMATICS

Core paper	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Algebra-I PMSM11E	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Mathematical Analysis-I PMSM12E	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	
Ordinary Differential Equation PMSM13E	CO-1	✓			✓	
	CO-2	✓			✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	
Graph theory PMSM14A	CO-1	✓				
	CO-2	✓		✓		✓
	CO-3	✓		✓		✓
	CO-4	✓		✓	✓	✓
	CO-5	✓				
Elective-1 Advanced Discrete mathematics PMSA11E	CO-1	✓				
	CO-2	✓		✓		✓
	CO-3	✓		✓		✓
	CO-4	✓		✓	✓	✓
	CO-5	✓				
Algebra-II PMSM21E	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓				
	CO-4	✓				
	CO-5	✓			✓	
Measure Theory and Integration PMSM22E	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓		✓		
	CO-4	✓				
	CO-5	✓		✓		
Partial Differential Equation PMSM23E	CO-1	✓				
	CO-2	✓				
	CO-3	✓				
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	

Course	CO					
Probability Theory PMSM24E	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	
Elective-1 Advanced Mathematical Programming PMSA21E	CO-1	✓				
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓	✓			
	CO-5	✓	✓	✓	✓	✓
Extra Disciplinary C Programming PCSE22E	CO-1	✓				
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	
	CO-4	✓	✓		✓	
	CO-5	✓	✓	✓	✓	✓
Complex Analysis-I	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓				
	CO-4	✓				
	CO-5	✓			✓	
Topology	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓				
	CO-4	✓			✓	
	CO-5	✓		✓	✓	
Operation Research	CO-1	✓		✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓			✓	
Calculus of variation and Integral Calculus	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Elective-1 Java programming	CO-1	✓				
	CO-2	✓	✓	✓	✓	
	CO-3	✓	✓	✓	✓	
	CO-4	✓			✓	
	CO-5	✓	✓	✓		✓

Core paper	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Complex analysis-II	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓				
Functional Analysis	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓				
Differential Geometry	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓				
Mechanics	CO-1	✓			✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓				
	CO-4	✓		✓	✓	
	CO-5	✓				✓
Elective-1 Fluid dynamics	CO-1	✓				✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	✓
	CO-5	✓				
Elective-1 Stochastic process	CO-1	✓			✓	✓
	CO-2	✓		✓		
	CO-3	✓		✓	✓	
	CO-4	✓		✓		✓
	CO-5	✓				

DEPARTMENT OF PHYSICS

B. SC PHYSICS

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
MECHANICS AND PROPERTIES OF MATTER (UPHM11D)	CO-1	√				
	CO-2		√			
	CO-3			√		
	CO-4			√	√	
	CO-5					√
THERMAL PHYSICS AND ACOUSTICS (UPHM21D)	CO-1	√				
	CO-2		√			
	CO-3		√	√		
	CO-4				√	
	CO-5					√
OPTICS (UPHM31D)	CO-1	√				
	CO-2		√			
	CO-3	√		√		
	CO-4				√	
	CO-5					√
ATOMIC PHYSICS (UPHM41C)	CO-1	√				
	CO-2		√			
	CO-3			√		
	CO-4				√	
	CO-5	√				√
ELECTRICITY AND MAGNETISM (UPHM51C)	CO-1	√				
	CO-2		√			√
	CO-3			√		
	CO-4				√	
	CO-5	√				√
NUCLEAR PHYSICS AND PARTICLE PHYSICS (UPHM52A)	CO-1	√				√
	CO-2		√			
	CO-3		√	√		
	CO-4				√	
	CO-5	√				√
SOLID STATE PHYSICS (UPHM53A)	CO-1	√		√		
	CO-2		√			
	CO-3		√	√		
	CO-4				√	√
	CO-5					√
BASIC ELECTRONIC (UPHM54C)	CO-1	√	√			
	CO-2		√			√
	CO-3	√		√		
	CO-4				√	
	CO-5					√

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
NUMERICAL METHODS (UMSA51A)	CO-1		√			
	CO-2		√			
	CO-3			√		
	CO-4			√	√	
	CO-5		√		√	
RELATIVITY AND QUANTUM MECHANICS (UPHM61A)	CO-1	√				√
	CO-2		√			
	CO-3	√		√		
	CO-4		√		√	
	CO-5	√				√
MATHEMATICAL METHODS IN PHYSICS (UPHM62C)	CO-1	√	√			
	CO-2		√			
	CO-3			√		
	CO-4				√	√
	CO-5					√
INTEGRATED ELECTRONIC (UPHA61C)	CO-1		√		√	
	CO-2		√			
	CO-3			√		
	CO-4				√	
	CO-5				√	
MICROPROCESSOR FUNDAMENTALS (UPHA62A)	CO-1		√			
	CO-2		√			
	CO-3			√		
	CO-4			√	√	
	CO-5				√	

M. SC PHYSICS

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
MATHEMATICAL PHYSICS (PPHM11D)	CO-1	✓		√		
	CO-2		✓			
	CO-3			✓		√
	CO-4				✓	
	CO-5					✓
CLASSICAL MECHANICS AND RELATIVITY (PPHM12D)	CO-1	✓				√
	CO-2		✓			
	CO-3	√		✓		
	CO-4				✓	
	CO-5		√			✓
ELECTROMAGNETIC THEORY AND PLASMA PHYSICS (PPHM13D)	CO-1	✓				
	CO-2		✓			√
	CO-3	√		✓		
	CO-4				✓	
	CO-5				√	✓
INTEGRATED CIRCUITS AND MICROPROCESSOR 8085 (PPHM14C)	CO-1	✓		√		
	CO-2		✓			
	CO-3			✓		
	CO-4				✓	
	CO-5	√				✓
QUANTUM MECHANICS-I (PPHM21D)	CO-1	✓		√		
	CO-2		✓			
	CO-3			✓		
	CO-4				✓	
	CO-5				√	✓
STATISTICAL MECHANICS (PPHM22D)	CO-1	✓				√
	CO-2		✓			
	CO-3	√		✓		
	CO-4				✓	
	CO-5					✓
SPECTROSCOPY (PPHA21D)	CO-1		✓	√		
	CO-2		✓			
	CO-3			✓		
	CO-4				✓	
	CO-5				✓	

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
NANO SCIENCE (PPHE22D)	CO-1		✔			
	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5		√		✔	
BASIC MATERIALS SCIENCE (PPHE21D)	CO-1		✔			
	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5				✔	
QUANTUM MECHANICS-II (PPHM31D)	CO-1	✔				√
	CO-2		✔			
	CO-3			✔		
	CO-4	√			✔	
	CO-5			√		✔
CONDENSED MATTER PHYSICS (PPHM32D)	CO-1	√	✔		√	
	CO-2		✔			
	CO-3			✔		
	CO-4				√	
	CO-5					✔
COMPUTATIONAL METHODS AND PROGRAMMING (PPHM33C)	CO-1		✔		✔	
	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5			√	✔	
CRYSTAL GROWTH (PPHA31C)	CO-1		✔			
	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5				✔	
ADVANCED MATERIALS SCIENCE (PPHA32D)	CO-1		✔			
	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5			√	✔	
Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
NUCLEAR AND PARTICLE PHYSICS (PPHM41D)	CO-1	✔				√
	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5	√				✔
MICROPROCESSOR 8086 AND MICROCONTROLLER 8051 (PPHA41C)	CO-1		✔		√	
	CO-2		✔			
	CO-3			✔		
	CO-4			√	✔	
	CO-5				✔	
	CO-1		✔			

ENERGY PHYSICS (PPHA42D)	CO-2		✔			
	CO-3			✔		
	CO-4				✔	
	CO-5		√		✔	

DEPARTMENT OF BIOCHEMISTRY

B. SC BIOCHEMISTRY

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Nutritional Biochemistry UBYM11C	CO-1	✔			✔	
	CO-2	✔	✔	✔	✔	✔
	CO-3	✔		✔	✔	✔
	CO-4	✔		✔	✔	✔
	CO-5	✔				
Health and Nutrition NMBY11C	CO-1	✔				
	CO-2	✔	✔	✔	✔	
	CO-3	✔	✔	✔	✔	
	CO-4	✔	✔	✔	✔	
	CO-5	✔				
Cell Biology UBYM21C	CO-1	✔			✔	✔
	CO-2	✔		✔	✔	
	CO-3	✔		✔	✔	
	CO-4	✔		✔	✔	✔
	CO-5	✔		✔	✔	✔
Human diseases and Preventive aspects NMBY21C	CO-1	✔				
	CO-2	✔	✔	✔	✔	✔
	CO-3	✔	✔	✔	✔	✔
	CO-4	✔	✔	✔	✔	
	CO-5	✔	✔			
Practical-I UBYL21C	CO-1		✔		✔	✔
	CO-2		✔	✔		
	CO-3	✔	✔		✔	✔
	CO-4	✔	✔	✔		✔
	CO-5		✔	✔	✔	
Chemistry of Biomolecules – I UBYM31C	CO-1	✔				
	CO-2	✔		✔	✔	
	CO-3		✔			
	CO-4	✔			✔	
	CO-5			✔		✔
Chemistry of Biomolecules – II UBYM41C	CO-1	✔				
	CO-2	✔		✔		
	CO-3		✔		✔	
	CO-4	✔			✔	✔
	CO-5	✔		✔		
Practical-II UBYL41C	CO-1		✔			✔
	CO-2		✔			
	CO-3		✔	✔		✔
	CO-4		✔	✔		✔

Course	CO					
	CO-5		✓	✓		✓
Enzymes UBYM51C	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	
	CO-3		✓	✓		✓
	CO-4					✓
	CO-5			✓	✓	
Metabolism UBYM52C	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓		✓		
	CO-4			✓		
	CO-5			✓	✓	
Analytical Biochemistry UBYM53C	CO-1	✓	✓		✓	
	CO-2	✓	✓	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		
	CO-5	✓	✓	✓	✓	✓
Physiology UBYA51C	CO-1	✓			✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Clinical Biochemistry UBYM61C	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓	✓	✓		✓
	CO-4		✓	✓		✓
	CO-5		✓	✓	✓	✓
Molecular Biology UBYM62C	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Immunology UBYA61C	CO-1	✓		✓	✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓		✓
Biotechnology UBYA62C	CO-1	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	✓
	CO-5	✓	✓		✓	✓
Practical-III UBYL61C	CO-1		✓			✓
	CO-2		✓			✓
	CO-3		✓			✓
	CO-4		✓			✓

	CO-5		✓	✓		✓
Practical IV UBYL62C	CO-1		✓	✓		✓
	CO-2		✓	✓	✓	
	CO-3		✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5		✓	✓	✓	✓

M.SC BIOCHEMISTRY

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Biomolecules PBYM11C	CO-1	✔		✔	✔	
	CO-2	✔	✔	✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔				
Biochemical Techniques PBYM12C	CO-1		✔	✔	✔	✔
	CO-2	✔	✔	✔	✔	✔
	CO-3	✔	✔	✔	✔	✔
	CO-4	✔	✔	✔	✔	✔
	CO-5		✔	✔	✔	✔
Physiology and Cell biology PBYM13C	CO-1	✔		✔		
	CO-2	✔		✔	✔	
	CO-3	✔	✔	✔	✔	✔
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔		✔		
Enzymes and enzyme technology PBYM21C	CO-1	✔	✔	✔	✔	✔
	CO-2	✔		✔		
	CO-3	✔	✔		✔	
	CO-4	✔			✔	
	CO-5	✔		✔		✔
Intermediary metabolism-I PBYM22C	CO-1	✔				
	CO-2	✔		✔	✔	
	CO-3	✔		✔	✔	
	CO-4	✔		✔		
	CO-5	✔		✔		✔
Intermediary metabolism-II PBYM23C	CO-1	✔		✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔				
	CO-5			✔	✔	

Course	CO					
Energy and Drug metabolism PBYA21C	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4					
	CO-5	✓			✓	
Essentials of Biochemistry PBYE21C	CO-1	✓	✓			✓
	CO-2	✓	✓	✓		✓
	CO-3	✓	✓		✓	✓
	CO-4	✓		✓		
	CO-5	✓			✓	
Practical-I PBYL11C	CO-1		✓			
	CO-2		✓	✓		✓
	CO-3		✓	✓	✓	
	CO-4		✓	✓		
	CO-5		✓		✓	✓
Practical-II PBYL21C	CO-1		✓	✓	✓	
	CO-2		✓			✓
	CO-3	✓	✓			✓
	CO-4		✓	✓	✓	✓
	CO-5		✓	✓		
Biotechnology PBYM31C	CO-1	✓		✓	✓	
	CO-2	✓	✓		✓	✓
	CO-3	✓		✓		
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓		✓	
Clinical Biochemistry-I PBYM32C	CO-1		✓		✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓	✓			✓
	CO-5		✓	✓	✓	✓
Molecular biology PBYM33C	CO-1	✓		✓	✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓	✓	✓

Course	CO					
Lifestyle diseases and prevention PBYE31C	CO-1	✔	✔	✔		✔
	CO-2	✔	✔	✔	✔	
	CO-3	✔	✔	✔	✔	✔
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔		✔		
Hormones PBYM41C	CO-1	✔		✔		
	CO-2	✔			✔	
	CO-3	✔		✔	✔	✔
	CO-4	✔	✔			
	CO-5	✔		✔	✔	✔
Clinical Biochemistry-II PBYM42C	CO-1	✔	✔	✔	✔	✔
	CO-2	✔				
	CO-3	✔	✔	✔		✔
	CO-4	✔	✔	✔		✔
	CO-5	✔	✔	✔		✔
Signal transduction PBYA41A	CO-1	✔		✔		
	CO-2	✔	✔	✔	✔	
	CO-3	✔	✔	✔	✔	✔
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔		✔	✔	
Immunochemistry PBYA42C	CO-1	✔		✔	✔	✔
	CO-2	✔		✔	✔	✔
	CO-3	✔	✔	✔	✔	
	CO-4	✔		✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Practical-III PBYL41C	CO-1		✔			✔
	CO-2		✔	✔		✔
	CO-3		✔			✔
	CO-4		✔			✔
	CO-5		✔			✔

DEPARTMENT OF COMPUTER SCIENCE

B.SC COPUTER SCIENCE

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Programming in C	CO-1				✔	
	CO-2	✔	✔		✔	
	CO-3	✔	✔			
	CO-4	✔	✔		✔	
	CO-5	✔	✔	✔	✔	✔
Programming in C Lab	CO-1	✔				
	CO-2	✔	✔			
	CO-3	✔	✔			
	CO-4		✔	✔		✔
	CO-5		✔	✔	✔	✔
Digital Electronics & Microprocessors	CO-1	✔				
	CO-2	✔				
	CO-3	✔				
	CO-4	✔	✔		✔	
	CO-5	✔	✔	✔	✔	✔
Digital Electronics & Microprocessors Lab	CO-1	✔	✔			
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Programming in C++ and Data Structures	CO-1	✔				
	CO-2	✔	✔			
	CO-3	✔	✔		✔	
	CO-4	✔	✔		✔	✔
	CO-5	✔	✔	✔	✔	✔
Programming in C++ and Data Structures Lab	CO-1	✔	✔			
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Programming In Java	CO-1	✔				
	CO-2	✔				
	CO-3	✔	✔			
	CO-4	✔	✔		✔	
	CO-5	✔	✔	✔	✔	✔

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Java Programming Lab	CO-1	✔	✔			
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Relational Database Management Systems	CO-1	✔				
	CO-2	✔	✔		✔	
	CO-3	✔	✔		✔	
	CO-4	✔	✔		✔	✔
	CO-5	✔	✔	✔		✔
Object Oriented Analysis and Design	CO-1	✔				
	CO-2	✔				
	CO-3	✔			✔	
	CO-4	✔			✔	✔
	CO-5	✔	✔	✔	✔	✔
Operating System	CO-1	✔				
	CO-2	✔			✔	
	CO-3	✔	✔			✔
	CO-4	✔	✔		✔	✔
	CO-5	✔		✔	✔	✔
Visual Programming	CO-1	✔				
	CO-2	✔				
	CO-3	✔				
	CO-4		✔		✔	
	CO-5	✔	✔	✔		✔
RDBMS-Lab	CO-1	✔	✔			
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Computer Networks	CO-1	✔				
	CO-2		✔		✔	
	CO-3	✔	✔		✔	
	CO-4	✔	✔	✔		✔
	CO-5	✔	✔	✔		✔

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Web Technology	CO-1	✓				
	CO-2		✓			
	CO-3	✓	✓			
	CO-4	✓	✓			
	CO-5	✓	✓	✓	✓	✓
E-Commerce	CO-1	✓				
	CO-2	✓				
	CO-3				✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
Software Testing	CO-1	✓				
	CO-2		✓			
	CO-3	✓	✓	✓		
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Web Technology Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓

M. SC COMPUTER SCIENCE

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
System Software	CO-1	✔				
	CO-2				✔	
	CO-3	✔			✔	
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔		✔
Advanced Java Programming	CO-1	✔				
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔			
	CO-5	✔	✔	✔	✔	✔
Design and Analysis of Algorithms	CO-1	✔				
	CO-2				✔	✔
	CO-3	✔			✔	✔
	CO-4		✔		✔	✔
	CO-5	✔	✔	✔	✔	✔
Principles of Compiler Design	CO-1	✔				
	CO-2				✔	✔
	CO-3	✔			✔	✔
	CO-4	✔		✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Advanced Java Programming Lab.	CO-1	✔	✔			
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Algorithms Lab	CO-1	✔	✔			
	CO-2		✔			
	CO-3		✔			
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔	✔	✔
Computer Networks	CO-1	✔				
	CO-2		✔		✔	
	CO-3	✔	✔		✔	
	CO-4	✔	✔	✔		✔
	CO-5	✔	✔	✔		✔

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Digital Image Processing	CO-1	✓				
	CO-2	✓				
	CO-3				✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Theoretical Foundations of Computer Science	CO-1	✓				
	CO-2				✓	
	CO-3	✓			✓	✓
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	✓
Mobile Computing	CO-1	✓				
	CO-2	✓				
	CO-3	✓				
	CO-4		✓			✓
	CO-5	✓	✓	✓	✓	
RDBMS Lab	CO-1		✓			
	CO-2	✓	✓			✓
	CO-3		✓			✓
	CO-4	✓	✓			
	CO-5		✓			
Image Processing using Java Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Object Oriented Analysis and Design	CO-1	✓				
	CO-2	✓				
	CO-3		✓		✓	
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	
Data Warehousing and Data Mining	CO-1	✓				
	CO-2	✓				✓
	CO-3			✓		✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Artificial Neural Networks	CO-1					
	CO-2	✓				✓
	CO-3	✓		✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Distributed Database	CO-1					
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓			✓	✓
	CO-5	✓	✓	✓		✓
Mini Project	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Project work	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓

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Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Fundamentals of Digital Computers	CO-1	✔			✔	
	CO-2	✔			✔	
	CO-3	✔			✔	
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔	✔	✔		✔
Digital Lab	CO-1	✔				
	CO-2	✔	✔			
	CO-3	✔	✔			
	CO-4		✔	✔	✔	✔
	CO-5		✔	✔	✔	✔
Internet and its Applications	CO-1	✔			✔	
	CO-2	✔			✔	
	CO-3	✔				
	CO-4	✔	✔			
	CO-5	✔	✔	✔		✔
Microprocessors	CO-1	✔			✔	
	CO-2	✔	✔		✔	
	CO-3	✔	✔			
	CO-4	✔				
	CO-5	✔		✔		✔
Programming in C and C++	CO-1				✔	
	CO-2	✔	✔		✔	
	CO-3	✔	✔			
	CO-4	✔	✔		✔	
	CO-5	✔	✔	✔	✔	✔
C Programming and Microprocessors Lab	CO-1	✔				
	CO-2	✔	✔			
	CO-3	✔	✔			
	CO-4		✔	✔	✔	✔
	CO-5		✔	✔	✔	✔
Operating Systems	CO-1		✔		✔	
	CO-2	✔	✔		✔	
	CO-3	✔	✔			
	CO-4	✔			✔	✔
	CO-5	✔		✔	✔	✔

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Data Structures	CO-1		✓		✓	
	CO-2	✓	✓		✓	
	CO-3	✓	✓			✓
	CO-4	✓			✓	✓
	CO-5	✓		✓	✓	✓
Object Oriented Analysis and Design	CO-1	✓				
	CO-2	✓				
	CO-3		✓		✓	
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	
Programming in Java	CO-1	✓				
	CO-2		✓		✓	
	CO-3	✓	✓		✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		
Programming in Java Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Database Management Systems	CO-1	✓				
	CO-2		✓		✓	
	CO-3	✓	✓		✓	
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓		✓
Visual Programming	CO-1	✓				
	CO-2				✓	
	CO-3	✓				
	CO-4	✓	✓			
	CO-5	✓	✓	✓		✓
Computer Networks	CO-1	✓				
	CO-2		✓		✓	
	CO-3	✓	✓		✓	
	CO-4	✓	✓	✓		✓
	CO-5	✓	✓	✓		✓

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
RDBMS with visual programming Lab.	**CO-1**	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Multimedia Systems	**CO-1**					
	CO-2	✓				
	CO-3	✓				
	CO-4	✓	✓			✓
	CO-5	✓	✓	✓	✓	
Software Engineering	**CO-1**					
	CO-2	✓			✓	
	CO-3	✓	✓		✓	
	CO-4	✓	✓	✓		✓
	CO-5	✓	✓	✓		✓
Information Security	**CO-1**					
	CO-2	✓				
	CO-3	✓			✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
Computer Organization And Architecture	**CO-1**					
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	✓
Web Technologies	**CO-1**					
	CO-2	✓	✓			
	CO-3	✓	✓			
	CO-4	✓	✓			
	CO-5	✓	✓	✓	✓	✓
Web Application Lab	**CO-1**	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Course Subject Code	**Course Outcome**	**PSO-1**	**PSO-2**	**PSO-3**	**PSO-4**	**PSO-5**
Systems Software	**CO-1**					

Subject	CO					
	CO-2	✓			✓	
	CO-3	✓			✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
Advance Java Programming	CO-1					
	CO-2		✓			
	CO-3	✓	✓			
	CO-4	✓	✓			
	CO-5	✓	✓	✓	✓	✓
Design and Analysis of Algorithms	CO-1					
	CO-2				✓	✓
	CO-3	✓			✓	✓
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	✓
Open Source Programming	CO-1					
	CO-2					
	CO-3	✓				
	CO-4	✓	✓			
	CO-5	✓	✓	✓	✓	✓
Advance Java Programming –Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Open Source Programming –Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Unix And Shell Programming	CO-1					
	CO-2	✓			✓	
	CO-3	✓			✓	
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓		✓

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Distributed Databases	CO-1					
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓			✓	✓
	CO-5	✓	✓	✓		✓
E-Commerce	CO-1					
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
Unix Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Theory of Computation	CO-1	✓				
	CO-2				✓	
	CO-3	✓			✓	✓
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	✓
Software Project Management	CO-1					
	CO-2	✓				
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓	✓	✓		✓
Network Programming	CO-1					
	CO-2	✓				
	CO-3	✓				
	CO-4	✓	✓	✓	✓	
	CO-5	✓	✓	✓		✓

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Software Testing	CO-1					
	CO-2	✓	✓			
	CO-3	✓	✓	✓		
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Data Warehousing and Data Mining	CO-1					
	CO-2	✓				✓
	CO-3	✓		✓		✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Network Programming Lab	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Windows Programming	CO-1					
	CO-2	✓				
	CO-3	✓				
	CO-4	✓	✓	✓		✓
	CO-5	✓	✓	✓	✓	
Distributed Computing	CO-1					
	CO-2	✓				
	CO-3	✓				✓
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	✓
Project	CO-1	✓	✓			
	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓

DEPARTMENT OF COMPUTER APPLICATIONS

BCA

itle of the Course	Course Outcome	PSO1	PSO2	PSO3	PSO4	PSO5
Fundamentals Of Digital Computers	CO1			ü		
	CO2			ü	ü	
	CO3			ü	ü	
	CO4			ü	ü	ü
	CO5			ü	ü	ü
PC – Software Lab						
	CO1	ü			ü	ü
	CO2		ü		ü	ü
	CO3			ü		ü
	CO4		ü			
	CO5		ü		ü	
	CO6		ü		ü	
	CO7	ü	ü			
Programming In C						
	CO1	ü				
	CO2	ü	ü			ü
	CO3	ü	ü			ü
	CO4		ü			
	CO5		ü			
C Programming Lab						
	CO1	ü				
	CO2	ü	ü			
	CO3	ü	ü			
	CO4		ü			ü
	CO5		ü			ü
Programming In C++ and Data Structures						
	CO1	ü				
	CO2		ü			ü
	CO3		ü			ü
	CO4	ü				
	CO5		ü			
	CO6		ü			
	CO7		ü			

Course	CO					
Microprocessor & its Applications						
	CO1			ü	ü	
	CO2		ü		ü	
	CO3				ü	
	CO4			ü	ü	
	CO5				ü	
Programming In C++ With Data Structure Lab						
	CO1	ü				ü
	CO2	ü	ü			
	CO3		ü	ü		
	CO4		ü	ü		ü
	CO5		ü	ü		
	CO6		ü			
	CO7		ü			ü
Programming in Java						
	CO1	ü				
	CO2	ü	ü			
	CO3		ü			
	CO4		ü			
	CO5		ü			
	CO6		ü			
	CO7		ü			ü
OPERATING SYSTEM						
	CO1				ü	
	CO2				ü	
	CO3				ü	
	CO4					ü
	CO5				ü	
	CO6				ü	
COMPUTER GRAPHICS & MULTIMEDIA						
	CO1				ü	
	CO2				ü	
	CO3					ü
	CO4				ü	ü
	CO5				ü	ü

PROGRAMMING IN JAVA LAB						
	CO1	ü				
	CO2	ü				
	CO3		ü			
	CO4		ü			
	CO5		ü			
	CO6		ü			
	CO7		ü			ü
UNIX PROGRAMMING						
	CO1	ü				
	CO2		ü			
	CO3	ü	ü			
	CO4	ü				
	CO5	ü	ü			
VISUAL PROGRAMMING						
	CO1	ü				
	CO2	ü	ü			
	CO3		ü			
	CO4		ü			
	CO5	ü	ü			
SOFTWARE PROJECT MANAGEMENT						
	CO1			ü		
	CO2				ü	ü
	CO3			ü	ü	ü
	CO4			ü		
	CO5			ü		ü
Relational Database Management Systems						
	CO1	ü				
	CO2	ü	ü			
	CO3		ü			ü
	CO4		ü			ü
	CO5		ü			
Computer Networks						
	CO1			ü		

	CO2			ü		
	CO3				ü	
	CO4			ü	ü	
	CO5				ü	
RDBMS Lab						
	CO1	ü				
	CO2		ü			
	CO3		ü			
	CO4	ü	ü			ü
	CO5		ü			ü
Network Programming						
	CO1	ü				
	CO2		ü			
	CO3		ü			
	CO4	ü	ü			
	CO5		ü			
Software Engineering						
	CO1			ü		ü
	CO2				ü	
	CO3				ü	
	CO4				ü	
	CO5			ü		
Web Technology						
	CO1	ü	ü			ü
	CO2		ü			
	CO3		ü			ü
	CO4		ü			ü
	CO5		ü			ü
System Software						
	CO1			ü		
	CO2				ü	
	CO3			ü		
	CO4				ü	
	CO5			ü		
E-Commerce						
	CO1			ü		
	CO2				ü	
	CO3			ü		

	CO4			ü		
	CO5			ü		
Data Mining						
	CO1			ü		
	CO2			ü	ü	
	CO3			ü		
	CO4				ü	
	CO5				ü	
Digital Image Processing						
	CO1			ü		
	CO2				ü	
	CO3				ü	
	CO4			ü		
	CO5				ü	
Object Oriented Analysis and Design						
	CO1			ü		
	CO2			ü		
	CO3				ü	
	CO4				ü	
	CO5			ü		
Software Testing						
	CO1			ü		
	CO2				ü	
	CO3			ü		
	CO4			ü		
	CO5				ü	
Web Application Lab						
	CO1	ü	ü			
	CO2		ü			ü
	CO3		ü			ü
	CO4	ü	ü			ü
	CO5	ü	ü			ü

DEPARTMENT OF MICROBIOLOGY

B. SC MICROBIOLOGY

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
General Microbiology and Microbial Physiology UMYM11C	CO-1	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓	✓	✓	✓	
	CO-4	✓	✓	✓		
	CO-5	✓		✓	✓	
General Microbiology and Microbial Physiology (Practical) UMYL11A	CO-1		✓	✓	✓	✓
	CO-2		✓	✓	✓	✓
	CO-3		✓	✓		✓
	CO-4		✓	✓	✓	
	CO-5		✓	✓		
Allied Biochemistry I UBYA11C	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
Cellular Organization NMMY11C	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓			✓	
Immunology UMYM21C	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓	✓	✓
Immunology UMYL21C	CO-1		✓	✓	✓	✓
	CO-2		✓	✓	✓	
	CO-3		✓	✓	✓	
	CO-4		✓	✓	✓	
	CO-5		✓		✓	
Allied Biochemistry II UBYA21C	CO-1	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
Allied Biochemistry I and II UBYY21C	CO-1		✓			✓
	CO-2		✓	✓		✓
	CO-3		✓			
	CO-4		✓			✓
Diversity of Life Forms NMMY21C	CO-1	✓			✓	
	CO-2	✓			✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓			✓	
Molecular Biology UMYM31C	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	

Course	CO	1	2	3	4	5
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Molecular Biology UMYL31C	CO-1		✓	✓		
	CO-2		✓	✓		✓
	CO-3		✓	✓		
	CO-4		✓	✓		
	CO-5		✓	✓		
Bioinstrumentation UMYA31B	CO-1	✓	✓	✓		✓
	CO-2	✓	✓		✓	✓
	CO-3	✓	✓	✓		✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
Bioinstrumentation UMYY41B	CO-1		✓	✓	✓	
	CO-2		✓	✓		✓
	CO-3		✓	✓		
	CO-4		✓	✓	✓	✓
	CO-5		✓	✓	✓	✓
Soil and Agricultural Microbiology UMYM41A	CO-1	✓	✓	✓		✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	
	CO-5	✓			✓	✓
Soil and Agricultural Microbiology UMYL42A	CO-1		✓	✓		✓
	CO-2		✓	✓		
	CO-3		✓	✓		
	CO-4		✓	✓	✓	
	CO-5		✓	✓	✓	
Biostatistics UMSA43A	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	
Biostatistics UMSY43A	CO-1		✓	✓		
	CO-2		✓	✓		
	CO-3		✓	✓	✓	
	CO-4		✓	✓	✓	✓
	CO-5		✓	✓		✓
Medical Bacteriology UMYM51C	CO-1	✓	✓	✓		✓
	CO-2	✓	✓	✓		✓
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Medical Mycology And Parasitology UMYM52A	CO-1	✓	✓	✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Medical Virology	CO-1	✓	✓	✓	✓	

Course	CO					
UMYM53A	**CO-2**	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓	✓	✓	✓	✓
Bacteriology, Mycology, Parasitology & Virology UMYL51A	**CO-1**		✓	✓		✓
	CO-2		✓	✓	✓	✓
	CO-3		✓	✓		
	CO-4		✓	✓		✓
	CO-5		✓	✓	✓	✓
Microbial Genetics and Genetic Engineering UMYA51C	**CO-1**	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Industrial and Pharmaceutical microbiology UMYA52C	**CO-1**	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓		
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓		✓	✓	✓
Environmental Microbiology UMYM61A	**CO-1**	✓				
	CO-2	✓	✓	✓	✓	
	CO-3	✓	✓	✓		✓
	CO-4	✓		✓	✓	
	CO-5	✓	✓	✓	✓	✓
Food & Dairy Microbiology UMYM62A	**CO-1**	✓			✓	
	CO-2	✓	✓	✓		✓
	CO-3	✓			✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓				
Environmental, Food & Dairy Microbiology UMYL61A	**CO-1**		✓			✓
	CO-2		✓			✓
	CO-3		✓	✓		✓
	CO-4		✓			✓
	CO-5		✓	✓		✓
Biotechnology UMYA62A	**CO-1**	✓	✓	✓		✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓		✓	
	CO-4	✓		✓		
	CO-5	✓		✓	✓	

M.SC APPLIED MICROBIOLOGY

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
General Microbiology and Laboratory Animal Science (PMYM11C)	CO-1	✓	✓	✓	✓	✓
	CO-2	✓	✓			
	CO-3	✓		✓		
	CO-4	✓	✓	✓		✓
	CO-5	✓	✓			✓
Immunology and Immunotechnology (PMYM12C)	CO-1	✓		✓		
	CO-2	✓	✓	✓		
	CO-3	✓	✓			✓
	CO-4	✓	✓	✓		
	CO-5	✓				
Microbial Taxonomy (PMYM13C)	CO-1	✓		✓		
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓		✓		
	CO-5	✓		✓		
General Microbiology, Physiology and Immunology and Immunotechnolgy (PMYL11C)	CO-1		✓	✓		
	CO-2		✓			
	CO-3		✓	✓	✓	
	CO-4		✓	✓		✓
	CO-5		✓	✓		
	CO-6		✓			
	CO-7		✓		✓	✓
	CO-8		✓	✓		
Metabolic Pathways (PMYA11C)	CO-1	✓		✓	✓	
	CO-2	✓				
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓		
Microbial Diversity (PMYA12C)	CO-1	✓		✓	✓	
	CO-2	✓		✓		
	CO-3	✓		✓	✓	
	CO-4	✓				
	CO-5	✓				
Virology (PMYM21C)	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓	✓	✓		
Systematic Medical Bacteriology (PMYM22C)	CO-1	✓		✓		
	CO-2	✓	✓			
	CO-3	✓	✓		✓	
	CO-4	✓	✓		✓	
	CO-5	✓	✓			✓
	CO-1	✓				
	CO-2	✓		✓		

Course	CO	1	2	3	4	5
Mycology and Parasitology (PMYM23C)	CO-3	✔	✔	✔		
	CO-4	✔	✔	✔		
	CO-5	✔	✔	✔		
Systematic Bacteriology, Mycology, Parasitology and Virology (PMYL21C)	CO-1		✔	✔		✔
	CO-2		✔	✔		✔
	CO-3		✔	✔		
	CO-4		✔	✔		✔
	CO-5		✔	✔		
	CO-6		✔	✔		
Bioinformatics and Biostatistics (PMYA21C)	CO-1	✔			✔	
	CO-2	✔		✔		✔
	CO-3	✔		✔		
	CO-4	✔	✔	✔		
	CO-5	✔	✔	✔		
Industrial and Pharmaceutical Microbiology (PMYA22C)	CO-1	✔	✔		✔	
	CO-2	✔		✔		
	CO-3	✔		✔		
	CO-4	✔		✔		
	CO-5	✔	✔			✔
Microbial Genetics (PMYM31C)	CO-1	✔				
	CO-2	✔			✔	
	CO-3	✔		✔	✔	
	CO-4	✔	✔	✔		
	CO-5	✔			✔	
Genetic Engineering (PMYM32C)	CO-1	✔				
	CO-2	✔			✔	
	CO-3	✔			✔	
	CO-4	✔	✔	✔		
	CO-5	✔		✔		✔
Molecular Biology (PMYM33C)	CO-1	✔		✔	✔	
	CO-2	✔			✔	
	CO-3	✔			✔	
	CO-4	✔				
	CO-5	✔			✔	
Soil and Agricultural Microbiology (PMYA31A)	CO-1	✔				
	CO-2	✔		✔		
	CO-3	✔				
	CO-4	✔	✔	✔	✔	✔
	CO-5	✔		✔		
Microbial Genetics, Molecular Biology and Genetic Engineering (PMYL41A)	CO-1		✔	✔		
	CO-2		✔	✔		
	CO-3		✔	✔		
	CO-4	✔	✔	✔		
	CO-5	✔	✔	✔	✔	✔
Environmental Biotechnology (PMYE31A	CO-1	✔		✔		
	CO-2	✔		✔		✔
	CO-3	✔		✔	✔	✔
	CO-4	✔		✔	✔	
	CO-5	✔				

Course	CO					
Food, Dairy and Environmental Microbiology (PMYM41A)	**CO-1**	✔	✔			✔
	CO-2	✔	✔	✔		✔
	CO-3	✔		✔	✔	
	CO-4	✔				
	CO-5	✔		✔		
Research Methodology and Bioinstrumentation (PMYA41C)	**CO-1**	✔				
	CO-2	✔		✔		
	CO-3	✔	✔	✔	✔	
	CO-4	✔		✔	✔	✔
	CO-5	✔		✔	✔	
Soil, Agricultural, Food and Environmental Microbiology (PMYL42A)	**CO-1**		✔	✔		✔
	CO-2		✔	✔		✔
	CO-3		✔	✔		
	CO-4		✔	✔		✔
	CO-5		✔	✔		
	CO-6		✔			

DEPARTMENT OF BIOTECHNOLOGY

B.SC BIOTECHNOLOGY

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Cell Biology UBTM11D	CO-1	✔	✔	✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔		✔	✔	✔
	CO-4	✔		✔	✔	✔
	CO-5	✔		✔	✔	✔
Allied Microbiology UMYA11D	CO-1	✔		✔		
	CO-2	✔		✔		
	CO-3	✔		✔		
	CO-4	✔		✔		
	CO-5	✔		✔		✔
Plant Physiology NMBT11D	CO-1	✔		✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔		✔	✔	✔
Animal Physiology	CO-1	✔			✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔		✔	✔	✔
Practical 1 UBTL11C	CO-1		✔	✔		✔
	CO-2		✔	✔		✔
Developmental Biology and Genetics UBTM21D	CO-1	✔	✔	✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔			✔	✔
Allied Chemistry UCYA22D	CO-1	✔				
	CO-2	✔				
	CO-3	✔				
	CO-4	✔				
	CO-5	✔				✔
Basics of Ecology NMBT21C	CO-1	✔		✔	✔	
	CO-2	✔		✔	✔	
	CO-3	✔			✔	
	CO-4	✔			✔	
	CO-5	✔		✔	✔	✔

Subject	CO					
Evolution	**CO-1**	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓		✓	✓	✓
Practical 2 UBTL21D	**CO-1**		✓	✓		✓
	CO-2		✓	✓		✓
Immunology UBTM31D	**CO-1**	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	
	CO-5	✓			✓	✓
Allied Biochemistry UBYA31D	**CO-1**	✓		✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	✓
Practical 3	**CO-1**		✓			
	CO-2		✓			
Animal and medical Biotechnology	**CO-1**	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓		✓	✓	
	CO-5	✓	✓	✓	✓	✓
Biophysics and Biostatistics	**CO-1**	✓				
	CO-2	✓				
	CO-3	✓		✓		
	CO-4	✓		✓		
	CO-5	✓		✓		
Practical 4	**CO-1**		✓			✓
	CO-2		✓			✓

Subject	CO					
Plant Biotechnology	CO-1	✓				
	CO-2	✓		✓		✓
	CO-3	✓	✓	✓		✓
	CO-4	✓		✓		✓
	CO-5	✓	✓	✓		✓
Environmental Biotechnology	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓				
	CO-4	✓				
	CO-5	✓		✓		✓
Bioinformatics	CO-1	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓				
	CO-4	✓	✓			
	CO-5	✓		✓	✓	✓
Methods in Biology	CO-1	✓	✓	✓	✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Practical 5	CO-1					
	CO-2					
Genetic engineering	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	✓
	CO-3	✓	✓	✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Industrial Biotechnology	CO-1	✓	✓	✓	✓	
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5	✓	✓	✓	✓	✓
Microbial Biotechnology	CO-1	✓				
	CO-2	✓		✓		✓
	CO-3	✓				
	CO-4	✓		✓		✓
	CO-5	✓		✓		✓

Subject	CO					
Environmental Biotechnology	CO-1	✓		✓		
	CO-2	✓				
	CO-3	✓		✓		✓
	CO-4	✓		✓		✓
	CO-5	✓		✓		✓
Practical 6	CO-1		✓			✓
	CO-2		✓			✓

M. SC BIOTECHNOLOGY

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Biochemistry PBTM11D	CO-1	✓	✓	✓	✓	✓
	CO-2	✓	✓		✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Cell and Developmental biology PBTM12D	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
	CO-4	✓			✓	✓
	CO-5	✓			✓	
Molecular genetics PBTM13D	CO-1	✓			✓	
	CO-2	✓		✓	✓	✓
	CO-3	✓	✓		✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓		✓	✓	✓
Practical 1 PBTL11D	CO-1		✓	✓		✓
	CO-2		✓	✓		✓
	CO-3		✓	✓		✓
Elective Environmental Biotechnology	CO-1	✓			✓	
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Elective Biostatistics PMSA12D	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓		✓		
	CO-4	✓		✓		
	CO-5	✓		✓		
Ecology and Evolution PBTA11D	CO-1	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓		✓	✓	✓
Microbiology &Bioprocess Technology PBTM21D	CO-1	✓	✓		✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓

Course	CO					
Immunology PBTM22D	CO-1	✓	✓	✓	✓	
	CO-2	✓		✓	✓	
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓		✓	✓	
	CO-5	✓	✓	✓	✓	✓
Genetic Engineering PBTM23D	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Practical 2 PBTL21D	CO-1		✓	✓		✓
	CO-2		✓	✓		✓
	CO-3		✓	✓		✓
Intellectual Property Rights& Biosafety PBTA21D	CO-1	✓		✓	✓	
	CO-2	✓		✓		
	CO-3	✓		✓		✓
	CO-4	✓		✓		
	CO-5	✓		✓	✓	✓
Methods in Biology	CO-1	✓		✓	✓	✓
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Plant Physiology PBTE21D	CO-1	✓		✓	✓	✓
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Plant and Animal Biotechnology PBTM31D	CO-1	✓	✓			
	CO-2	✓		✓	✓	
	CO-3	✓	✓			
	CO-4	✓				
	CO-5	✓		✓	✓	✓
Bioinformatics PBTM32D	CO-1	✓		✓	✓	
	CO-2	✓	✓	✓	✓	
	CO-3	✓				
	CO-4	✓				
	CO-5	✓				✓
Molecular Biology PBTM33D	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Practical 3	CO-1		✓	✓		✓
	CO-2		✓	✓		✓
	CO-3		✓	✓		✓
Nano-Biotechnology PBTA31D	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓		✓		

Subject	CO	1	2	3	4	5
	CO-4	✓		✓		
	CO-5	✓		✓		✓
Virology	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Animal Physiology PBTE31D	CO-1	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓		✓	✓	✓
Stem Cell Biology	CO-1	✓		✓	✓	✓
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Research Methodology	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Marine Biotechnology	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓		✓		
	CO-4	✓	✓	✓		
	CO-5	✓	✓	✓	✓	✓

DEPARTMENT OF COMMERCE

B. COM

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Financial accounting-1 UCMM11A	CO-1	✓				
	CO-2	✓				
	CO-3	✓			✓	✓
	CO-4	✓				
	CO-5	✓				
Business communication UCMM12B	CO-1	✓			✓	✓
	CO-2	✓				
	CO-3	✓				
	CO-4	✓				
	CO-5	✓			✓	✓
Business Economics(allied) UCMA11A	CO-1	✓		✓	✓	
	CO-2	✓				
	CO-3	✓				
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Advanced Financial Accounting UCMM21A	CO-1	✓		✓		
	CO-2	✓				✓
	CO-3	✓			✓	
Principles of management UCMM22A	CO-1	✓				✓
	CO-2	✓				
	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓				✓
Indian Economy(allied) UCMA21A	CO-1	✓				✓
	CO-2	✓		✓		
	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓		✓		✓
Corporate accounting UCMM31A	CO-1	✓		✓	✓	
	CO-2	✓				
	CO-3	✓				✓
	CO-4	✓				✓
	CO-5	✓			✓	
Business Laws UCMM32A	CO-1	✓				
	CO-2	✓				
	CO-3	✓				
	CO-4	✓			✓	
	CO-5	✓			✓	✓
Banking Theory	CO-1	✓			✓	✓

Course	CO					
UCMM33A	CO-2	✓				
	CO-3	✓		✓		✓
	CO-4	✓		✓		
	CO-5	✓		✓		
Marketing UCMM34A	CO-1	✓		✓	✓	✓
	CO-2	✓		✓		✓
	CO-3	✓		✓	✓	
	CO-4	✓		✓	✓	✓
	CO-5	✓				✓
Business statistics allied UCMA31A	CO-1	✓		✓		
	CO-2	✓		✓		
	CO-3	✓		✓	✓	✓
Advanced corporate accounting UCMM41A	CO-1	✓		✓		
	CO-2	✓				
	CO-3	✓		✓		
	CO-4	✓				✓
	CO-5	✓		✓		
company Law UCMM42A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓				
Financial services UCMM43A	CO-1	✓		✓		
	CO-2	✓			✓	
	CO-3	✓			✓	
	CO-4	✓				
	CO-5	✓				✓
Business Taxation UCMM44A	CO-1	✓				
	CO-2	✓			✓	
	CO-3	✓				
	CO-4	✓				✓
	CO-5	✓			✓	
Operations Research(allied) UCMA41A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓		✓		
	CO-4	✓				
	CO-5	✓				
Elements of cost accounting UCMM51A	CO-1	✓				
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓		✓		
	CO-5	✓			✓	✓
Practical Auditing UCMM52A	CO-1	✓		✓		
	CO-2	✓				✓
	CO-3	✓			✓	
Entrepreneurial development	CO-1	✓				
	CO-2	✓		✓	✓	

Course	CO					
UCMM53A	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓				✓
Financial management UCMM54A	CO-1	✓				
	CO-2	✓				
	CO-3	✓				
	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
Income Tax law and practice-1(Elective) UCMA51A	CO-1	✓				
	CO-2	✓				✓
	CO-3	✓				✓
	CO-4	✓				
	CO-5	✓			✓	✓
Value Education UECM51A	CO-1	✓				
	CO-2	✓				
	CO-3	✓				
	CO-4	✓				
	CO-5	✓				
Advanced cost Accounting UCMM61A	CO-1	✓			✓	
	CO-2	✓			✓	
	CO-3	✓		✓		
	CO-4	✓		✓	✓	
	CO-5	✓			✓	✓
Management Accounting UCMM62A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓				
	CO-4	✓				
	CO-5	✓			✓	✓
Business Environment UCMM63A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓			✓	
Income Tax law and practice-II(Elective) UCMA61A	CO-1	✓				
	CO-2	✓				
	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓			✓	✓
Human Resource Management (Elective) UCMA62A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓			✓	✓
	CO-4	✓			✓	✓
	CO-5	✓			✓	✓
	CO-1					
	CO-2					
	CO-3					
	CO-4					
	CO-5					

M. COM

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Advanced corporate Accounting& accounting standards PCMM11A	CO-1	✓				
	CO-2	✓		✓	✓	
	CO-3	✓				
	CO-4	✓				✓
	CO-5					✓
Financial Management PCMM12E	CO-1	✓				
	CO-2	✓				✓
	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓			✓	
Organizational Behavior PCMM13E	CO-1	✓				
	CO-2	✓		✓	✓	✓
	CO-3	✓				
	CO-4	✓			✓	
	CO-5	✓				✓
Managerial Economics PCMM14A	CO-1	✓		✓		
	CO-2	✓		✓		✓
	CO-3	✓				
Accounting for specialized institution Elective PCMA11E	CO-1	✓				
	CO-2	✓				
	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓			✓	
Advanced cost and management accounting PCMM21A	CO-1	✓		✓		
	CO-2	✓				✓
	CO-3	✓				✓
	CO-4	✓			✓	
	CO-5	✓			✓	
Quantitative Techniques for business decisions PCMM22A	CO-1	✓				
	CO-2	✓			✓	✓
	CO-3	✓		✓	✓	✓
	CO-4	✓		✓		✓
	CO-5	✓		✓		
COPORATE LAWS	CO-1	✓				
	CO-2	✓		✓		✓
	CO-3	✓			✓	
	CO-4	✓				
	CO-5	✓			✓	
Income Tax law and practice-II(Elective) PCMA21A	CO-1	✓				
	CO-2	✓			✓	✓
	CO-3	✓				
	CO-4	✓			✓	✓
	CO-5	✓			✓	✓

Course	CO					
Total Quality Management PCME21A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓				
	CO-4	✓				
	CO-5	✓				
Research Methodology PCMM31A	CO-1	✓		✓	✓	
	CO-2	✓		✓	✓	✓
	CO-3	✓				
Knowledge Management PCMM32A	CO-1	✓				✓
	CO-2	✓				
	CO-3	✓				
	CO-4	✓				
	CO-5	✓				
Fundamentals of IT PCSM34A	CO-1	✓				✓
	CO-2	✓				✓
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓			✓	
Indirect Tax(Elective) PCMA31A	CO-1	✓				
	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓			✓	
CRM&Relationship marketing(Elective) PCMA32A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓		✓		✓
	CO-4	✓		✓		✓
	CO-5	✓				
Business Ethics, corporate governance PCME31A	CO-1	✓				
	CO-2	✓				✓
	CO-3	✓		✓		
	CO-4	✓				
	CO-5	✓				
Management Information System PCMM41A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓				✓
	CO-4	✓		✓		
	CO-5	✓		✓	✓	✓
Investment analysis and portfolio management theory PCMM42A	CO-1	✓				
	CO-2	✓		✓		
	CO-3	✓				✓
Merchant Banking And financial services PCMM43A	CO-1	✓				
	CO-2	✓				
	CO-3	✓		✓		
	CO-4	✓				
	CO-5	✓		✓		✓
Strategic HRM(Elective)	CO-1	✓				
	CO-2	✓				

PCMA41C	**CO-3**	✓				
	CO-4	✓				
	CO-5	✓				
Project Viva-Voce	**CO-1**			✓		
	CO-2	✓		✓		
	CO-3	✓		✓		✓
	CO-4			✓		✓
	CO-5			✓		

DEPARTMENT OF BUSINESS ADMINISTRATION
B. B. A

Course	Course Outcome	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
FINANCIAL ACCOUNTING	CO 1	ü					
	CO 2		ü				ü
	CO 3			ü			ü
	CO 4				ü		
	CO 5					ü	ü
PRINCIPLES OF MANAGEMENT	CO 1	ü	ü		ü	ü	ü
	CO 2	ü	ü		ü	ü	ü
	CO 3	ü	ü	ü	ü	ü	ü
	CO 4	ü	ü	ü	ü	ü	ü
	CO 5	ü	ü	ü	ü	ü	ü
MANAGERIAL ECONOMICS	CO 1	ü					
	CO 2		ü				
	CO 3						ü
	CO 4					ü	
	CO 5	ü					
BUSINESS COMMUNICATION SKILLS	CO 1						ü
	CO 2					ü	ü
	CO 3					ü	ü
	CO 4						ü
LEGAL ASPECTS OF BUSINESS	CO 1			ü			
	CO 2		ü	ü			
	CO 3		ü	ü			
	CO 4		ü	ü			
	CO 5			ü		ü	
	CO 6			ü		ü	
ORGANISATIONAL BEHAVIOR	CO 1	ü					
	CO 2	ü					
	CO 3					ü	
	CO 4	ü					
	CO 5	ü	ü				

Subject	CO						
	CO 6		ü				ü
	CO 7	ü					
	CO 8		ü		ü		
BUSINESS STATISTICS	CO 1	ü	ü				
	CO 2	ü	ü				
	CO 3	ü	ü				ü
	CO 4		ü				
	CO 5		ü				
	CO 6		ü				
COMPUTER APPLICATIONS IN BUSINESS	CO 1	ü					ü
	CO 2						ü
	CO 3				ü		
	CO 4				ü		
	CO 5		ü		ü		
COST ACCOUNTING	CO 1	ü	ü		ü		
	CO 2	ü					ü
	CO 3			ü		ü	
	CO 4					ü	
	CO 5	ü				ü	ü
INTERNATIONAL TRADE	CO 1	ü					
	CO 2	ü					
	CO 3			ü	ü		
	CO 4		ü				
	CO 5						ü
MARKETING MANAGEMENT	CO 1	ü		ü			
	CO 2		ü		ü		ü
	CO 3		ü	ü		ü	
	CO 4				ü	ü	ü
FINANCIAL MANAGEMENT	CO 1	ü	ü				
	CO 2		ü	ü			
	CO 3			ü	ü		
	CO 4					ü	ü
	CO 5					ü	ü
	CO 6						ü

Subject	CO						
HUMAN RESOURCE MANAGEMENT	CO 1	ü					
	CO 2	ü	ü			ü	ü
	CO 3			ü			
	CO 4		ü				
	CO 5		ü				
	CO 6				ü		
MANAGEMENT INFORMATION SYSTEM	CO 1				ü		ü
	CO 2				ü		ü
	CO 3				ü		ü
	CO 4				ü		ü
	CO 5				ü		ü
OPERATIONS RESEARCH	CO 1	ü					
	CO 2		ü	ü			
	CO 3		ü	ü			
	CO 4		ü	ü			
	CO 5		ü	ü			
	CO 6		ü	ü			
	CO 7		ü	ü			
PRODUCTION AND MATERIALS MANAGEMENT	CO 1	ü					
	CO 2		ü				
	CO 3	ü					ü
	CO 4			ü	ü		
	CO 5					ü	ü
CUSTOMER RELATIONSHIP MANAGEMENT	CO 1	ü					
	CO 2		ü			ü	
	CO 3						ü
	CO 4	ü	ü				
	CO 5				ü		ü
MANAGEMENT ACCOUNTING	CO 1	ü		ü			
	CO 2		ü				
	CO 3		ü	ü		ü	
	CO 4	ü					ü

	CO						
	CO 5	ü	ü				ü
Principles of Insurance	CO 1	ü					
	CO 2		ü				
	CO 3		ü				
	CO 4	ü					
	CO 5		ü				
RESEARCH METHODOLOGY AND BUSINESS	CO 1	ü					
	CO 2		ü	ü			
	CO 3			ü			
	CO 4						ü
	CO 5				ü		
	CO 6						ü
SERVICES MARKETING	CO 1	ü					
	CO 2	ü					
	CO 3		ü				ü
	CO 4	ü				ü	
ADVERTISING AND SALESMANSHIP	CO 1	ü	ü				
	CO 2		ü				ü
	CO 3					ü	
	CO 4	ü		ü			
	CO 5				ü		ü
CONSUMER BEHAVIOUR	CO 1	ü					
	CO 2	ü					
	CO 3		ü		ü	ü	
	CO 4		ü				
ENTREPRENEURIAL DEVELOPMENT	CO 1	ü					
	CO 2	ü	ü			ü	ü
	CO 3			ü			
	CO 4					ü	
	CO 5					ü	
	CO 6					ü	ü
FINANACIAL SERVICES	CO 1	ü	ü				
	CO 2	ü	ü				

	CO 3	ü	ü			
	CO 4	ü	ü			
	CO 5	ü	ü			

M. B. A

Course	Course Outcome	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO 11	PSO 12
MANAGEMENT PRINCIPLES AND BUSINESS ETHICS	CO 1	ü							ü				
	CO 2	ü								ü			
	CO 3		ü		ü								
	CO 4	ü									ü		
	CO 5										ü		
QUANTITATIVE AND RESEARCH METHODS IN BUSINESS	CO 1	ü											
	CO 2		ü							ü			
	CO 3						ü			ü			
	CO 4			ü			ü			ü			
	CO 5						ü			ü			
ORGANISATIONAL BEHAVIOUR	CO 1			ü	ü								
	CO 2			ü	ü								
	CO 3			ü	ü								
	CO 4			ü	ü								
	CO 5			ü	ü								
ACCOUNTING FOR MANAGERS	CO 1						ü	ü					
	CO 2									ü			
	CO 3						ü			ü			
	CO 4									ü			
	CO 5						ü		ü	ü			
MANAGERIAL ECONOMICS	CO 1			ü			ü		ü	ü			
	CO 2	ü	ü			ü			ü		ü		
	CO 3		ü			ü			ü				
	CO 4							ü	ü				
	CO 5					ü		ü	ü		ü		
LEGAL SYSTEMS IN BUSINESS	CO 1										ü		
	CO 2										ü		

	CO												
	CO 3									ü			
	CO 4					ü							
	CO 5					ü							
APPLIED OPERATIONS RESEARCH	CO 1						ü			ü	ü		
	CO 2				ü					ü	ü		
	CO 3									ü	ü		
	CO 4									ü	ü		
	CO 5						ü			ü	ü		
HUMAN RESOURCE MANAGEMENT	CO 1					ü					ü	ü	
	CO 2			ü							ü		
	CO 3			ü	ü								
	CO 4			ü									
	CO 5					ü						ü	
MARKETING MANAGEMENT	CO 1	ü	ü								ü		
	CO 2	ü	ü										
	CO 3	ü											
	CO 4	ü	ü								ü		
	CO 5	ü	ü								ü	ü	
OPERATIONS MANAGEMENT	CO 1			ü			ü					ü	
	CO 2												
	CO 3										ü	ü	
	CO 4						ü						
	CO 5							ü	ü				
FINANCIAL MANAGEMENT	CO 1						ü	ü					
	CO 2						ü	ü		ü			
	CO 3						ü	ü		ü			
	CO 4						ü	ü		ü			
	CO 5						ü	ü		ü			
INNOVATION AND ENTREPRENEURSHIP	CO 1												
	CO 2		ü				ü						
	CO 3		ü								ü		

Subject	CO	1	2	3	4	5	6	7	8	9	10	11	12
	CO 4		ü	ü	ü	ü	ü	ü		ü	ü		
	CO 5					ü		ü			ü		
Strategic Management	CO 1												
	CO 2			ü	ü			ü					
	CO 3			ü	ü								
	CO 4					ü							
	CO 5										ü		
Management Information System	CO 1				ü								
	CO 2			ü		ü							
	CO 3												
	CO 4	ü					ü						
	CO 5	ü						ü					
	CO 6			ü					ü	ü			
International Business	CO 1	ü											
	CO 2				ü								
	CO 3					ü				ü			
	CO 4						ü	ü					
	CO 5											ü	
Marketing Research and Consumer Behaviour	CO 1	ü	ü										
	CO 2	ü	ü										
	CO 3	ü	ü										
	CO 4	ü	ü										
	CO 5	ü	ü										
Brand Management	CO 1	ü	ü										
	CO 2	ü	ü										
	CO 3	ü	ü										
	CO 4	ü	ü										
Advertising Management And Sales Promotion	CO 1	ü	ü										
	CO 2	ü	ü										
	CO 3	ü	ü										
	CO 4	ü	ü										

	CO 5	ü	ü												
	CO 6	ü	ü												
Tourism Marketing	CO 1	ü	ü												
	CO 2	ü	ü												
	CO 3	ü	ü												
	CO 4	ü	ü												
	CO 5	ü	ü												
Event Marketing	CO 1	ü	ü												
	CO 2	ü	ü												
	CO 3	ü	ü												
	CO 4	ü	ü												
	CO 5	ü	ü												
Service Marketing	CO 1	ü	ü												
	CO 2	ü	ü												
	CO 3	ü	ü												
	CO 4	ü	ü												
CRM	CO 1	ü	ü												
	CO 2	ü	ü												
	CO 3	ü	ü												
	CO 4	ü	ü												
Retail Marketing	CO 1	ü	ü												
	CO 2	ü	ü												
	CO 3	ü	ü												
	CO 4	ü	ü												
	CO 5	ü	ü												
Rural Marketing	CO 1	ü	ü												
	CO 2	ü	ü												
	CO 3	ü	ü												
	CO 4	ü	ü												
	CO 5	ü	ü												
International Marketing	CO 1	ü	ü												

Course	CO	1	2	3	4	5	6	7	8	9	10	11	12
	CO 2	ü	ü										
	CO 3	ü	ü										
	CO 4	ü	ü										
Security Analysis and Portfolio Management	CO 1			ü			ü	ü					
	CO 2			ü			ü	ü					
	CO 3			ü			ü	ü					
	CO 4			ü			ü	ü					
	CO 5			ü			ü	ü					
Corporate Finance	CO 1			ü			ü	ü					
	CO 2			ü			ü	ü					
	CO 3			ü			ü	ü					
	CO 4			ü			ü	ü					
	CO 5			ü			ü	ü					
Tax Management	CO 1			ü			ü	ü					
	CO 2			ü			ü	ü					
	CO 3			ü			ü	ü					
	CO 4			ü			ü	ü					
Merchant Banking and Financial Services	CO 1			ü			ü	ü					
	CO 2			ü			ü	ü					
	CO 3			ü			ü	ü					
	CO 4			ü			ü	ü					
Derivatives Management	CO 1			ü			ü	ü					
	CO 2			ü			ü	ü					
	CO 3			ü			ü	ü					
	CO 4			ü			ü	ü					
	CO 5			ü			ü	ü					
Banking and Insurance	CO 1			ü			ü	ü					
	CO 2			ü			ü	ü					
	CO 3			ü			ü	ü					
	CO 4			ü			ü	ü					
	CO 5			ü			ü	ü					

Course	CO													
Database Management Systems	CO 1												ü	ü
	CO 2												ü	ü
	CO 3												ü	ü
	CO 4												ü	ü
	CO 5												ü	ü
System Analysis and Design	CO 1												ü	ü
	CO 2												ü	ü
	CO 3												ü	ü
	CO 4												ü	ü
	CO 5												ü	ü
Decision Support System	CO 1												ü	ü
	CO 2												ü	ü
	CO 3												ü	ü
	CO 4												ü	ü
	CO 5												ü	ü
E-Business	CO 1												ü	ü
	CO 2												ü	ü
	CO 3												ü	ü
	CO 4												ü	ü
	CO 5												ü	ü
Human Resource Development	CO 1				ü	ü								
	CO 2				ü	ü								
	CO 3				ü	ü								
	CO 4				ü	ü								
	CO 5				ü	ü								
	CO 6				ü	ü								
Performance Management	CO 1				ü	ü								
	CO 2				ü	ü								
	CO 3				ü	ü								
	CO 4				ü	ü								
	CO 5				ü	ü								

	CO 6				ü	ü								
Organisational Development	CO 1				ü	ü								
	CO 2				ü	ü								
	CO 3				ü	ü								
	CO 4				ü	ü								
	CO 5				ü	ü								
Industrial and Labour Relations	CO 1				ü	ü				ü				
	CO 2				ü	ü				ü				
	CO 3				ü	ü				ü				
	CO 4				ü	ü				ü				
	CO 5				ü	ü				ü				
Compensation Management	CO 1				ü	ü				ü				
	CO 2				ü	ü				ü				
	CO 3				ü	ü				ü				
	CO 4				ü	ü				ü				
	CO 5				ü	ü				ü				
Social Psychology	CO 1				ü	ü								
	CO 2				ü	ü								
	CO 3				ü	ü								
	CO 4				ü	ü								
Supply Chain Management	CO 1	ü	ü											
	CO 2	ü	ü											
	CO 3	ü	ü											
	CO 4	ü	ü											
	CO 5	ü	ü											
Quality Management	CO 1			ü				ü	ü					
	CO 2			ü				ü	ü					
	CO 3			ü				ü	ü					
	CO 4			ü				ü	ü					