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
	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	✓
The Elizabethan	CO-3	✓		✓	✓	✓
Age	CO-4	✓		✓	✓	✓
	CO-5	✓				
	CO-1	✓	✓		✓	✓
Milton and No.	CO-2	✓		✓	✓	
Milton and Neo-	CO-3	✓		✓	✓	✓
classical Age	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓			✓	✓
Background to the	CO-2	✓		✓	✓	
Study of English	CO-3	✓		✓	✓	
Literature	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
	CO-1	✓				
The Romantic	CO-2	✓	✓	✓	✓	✓
Age	CO-3	✓	✓	✓	✓	✓
-	CO-4	✓	✓	✓	✓	
	CO-5	✓	✓			
	CO-1		✓		✓	✓
	CO-2		✓	✓		
The Victorian Age	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		✓
	CO-5		✓	✓	✓	
	CO-1	✓				
The Social	CO-2	✓		✓	✓	
History of	CO-3		✓			
England	CO-4	✓			✓	
	CO-5			✓		✓
	CO-1	✓				
The Twentieth	CO-2	✓		✓		
Century Literature	CO-3		✓		✓	
- I	CO-4	✓			✓	✓
	CO-5	✓		✓		

	CO-1		✓			√
	CO-2		✓			
Literary Criticism	CO-3		✓	✓		✓
	CO-4		✓	✓		✓
-	CO-5		✓	✓		
	CO-1	✓			✓	
	CO-2	· ·	✓	✓	✓	
The History of	CO-2 CO-3	•	· · · · · · · · · · · · · · · · · · ·		•	✓
I	CO-4			-		· · ·
-	CO-4 CO-5			✓	✓	•
The Twentieth		✓		•	•	
The Twentieth	CO-1 CO-2	▼ ▼		✓	✓	
– II	<u>CO-2</u> CO-3	· ·		· ·	•	
	<u> </u>	•		· · · · · · · · · · · · · · · · · · ·		
	<u> </u>			✓	✓	
The History of	CO-1	✓	✓		✓	
English Language	CO-2	✓	✓	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		
	CO-5	 ✓ 	✓	✓	✓	√
	CO-1	✓			\checkmark	\checkmark
The History of	CO-2	✓	✓	✓	✓	✓
English Literature	CO-3	✓		✓	\checkmark	
$-\mathrm{II}$	CO-4	✓		\checkmark	\checkmark	\checkmark
	CO-5	✓		✓	\checkmark	\checkmark
	CO-1	✓		✓		
	CO-2	✓		✓		
Shakespeare I	CO-3	✓	✓	✓		✓
-	CO-4		✓	✓		✓
	CO-5		✓	✓	✓	✓
	CO-1	✓	✓	✓	✓	✓
	CO-2	✓		✓	✓	
American	CO-3	✓		✓	✓	
Literature I	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
	CO-1	✓		✓	✓	✓
An Introduction to	CO-2	✓	✓	✓	✓	✓
Linguistics and	CO-3	✓		✓	✓	✓
Phonetics	CO-4	 ✓ 		✓	✓	✓
	CO-5	✓	✓	✓		✓
	CO-1	✓		✓	✓	
	<u>CO-2</u>	✓ √	✓	✓	✓	
Indian Writing in	CO-3	✓		✓	✓	
English	CO-4	✓			✓	✓
	CO-5	✓	✓		✓	✓

	CO-1		 ✓ 			✓
	CO-2		✓			✓
World Classics in	CO-3		✓			✓
Translation –	CO-4		✓			✓
	CO-5		✓	✓		✓
	CO-1		✓	✓		✓
	CO-2		✓	✓	✓	
Shakespeare II	CO-3		✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5		✓	✓	✓	✓
American	CO-1	✓		✓	✓	
Literature II	CO-2	✓		✓	✓	
	CO-3	✓			✓	
	CO-4	✓			~	
	CO-5	✓				
Modern Critical	CO-1	✓			✓	
Theories – An	CO-2	✓		✓	✓	
Introduction	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓			✓	
Postcolonial	CO-1		✓			\checkmark
Literature	CO-2		✓	\checkmark		\checkmark
	CO-3		✓			
	CO-4		✓			\checkmark
	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
	CO-1	✓			✓	
	CO-2	✓	✓	✓	✓	✓
British Literature I	CO-3	✓		✓	✓	✓
Γ	CO-4	✓		✓	✓	✓
Γ	CO-5	✓				
	CO-1	✓	✓		✓	\checkmark
American	CO-2	✓		✓	✓	
Literature I	CO-3	✓		✓	✓	✓
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓			✓	✓
Indian Writing in	CO-2	✓		✓	✓	
English –	CO-3	✓		✓	√	
	CO-4	✓		✓	✓	<u> </u>
	CO-5	✓		✓	✓	√
Ļ	<u>CO-1</u>	✓				
Classics in	<u>CO-2</u>	✓	 ✓ 	✓	✓	√
Translation	CO-3	✓	✓	✓	✓	✓
	CO-4	✓	✓	✓	✓	
	CO-5	✓	✓			
En all'alt fan	CO-1		✓		✓	✓
	CO-2		✓	✓		
English for Careers	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		✓
	CO-5		✓	✓	✓	
	CO-1	✓				
Duitich Litenstrum	CO-2	✓		✓	✓	
British Literature	CO-3		✓			
II	CO-4	✓			✓	
Γ	CO-5			✓		✓
	CO-1	✓				
	CO-2	✓		✓		
American	CO-3		✓		✓	
Literature II	CO-4	✓			✓	✓
	CO-5	✓		✓		
	CO-1		✓ ✓			✓
History of English	CO-2		✓			
Language and	CO-3		 ✓	✓		
Introduction to	CO-4		· · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Linguistics	CO-4 CO-5		✓ ✓	▼ ✓		√
			•	•		•
Postcolonial	CO-1	✓			√	
Literature	<u>CO-2</u>	✓	✓	√	✓	
	CO-3		✓	✓		\checkmark

	CO-4					✓
_	CO-5			✓	✓	
Literature:	CO-1	✓				
Analysis,	CO-2	✓		✓	✓	
Approaches and	CO-3	 ✓ 		✓		
Applications	CO-4	1		✓		
	CO-5			✓	✓	
Shakespeare	CO-1	✓	✓		✓	
Studies	CO-2	\checkmark	\checkmark	✓		
	CO-3	✓	✓		✓	✓
	CO-4	✓	✓	✓		
	CO-5	 ✓ 	✓	✓	✓	✓
	CO-1	✓			✓	✓
Duitich Liter t	CO-2	✓	✓	✓	✓	\checkmark
British Literature	CO-3	✓		✓	✓	
III	CO-4	✓		\checkmark	✓	\checkmark
	CO-5	✓		✓	✓	✓
	CO-1	✓		✓		
Comparative Literature	CO-2	✓ ✓				
	<u> </u>	✓ ✓	✓	 ✓		✓
	CO-4		 ✓ 	✓		✓
	CO-4 CO-5		· •	· · ·	✓	
	<u> </u>	✓		· ·	✓ V	
-		· · · · · · · · · · · · · · · · · · ·	v	✓ ✓	✓ ✓	•
	CO-2 CO-3	✓ ✓		✓ ✓	✓	
Gender Studies	<u>CO-4</u>	✓ ✓		· ·	✓	
		▼ ▼		· ·	▼ ✓	
	<u>CO-5</u>	· ·		•		
	CO-1	 ✓ 		✓	✓	<u>√</u>
English Language	CO-2	✓	~	✓	•	√
Teaching –	CO-3	✓		✓	✓	✓
Tedening	CO-4	✓		✓	✓	\checkmark
	CO-5	✓	\checkmark	✓		\checkmark
	CO-1	✓		✓	✓	
	CO-2	\checkmark	\checkmark	\checkmark	✓	
British Literature	CO-3	✓		✓	✓	
IV	CO-4	✓			✓	✓
	CO-5	 ✓ 	✓		✓	✓
	CO-1	1 1	✓			✓
	CO-2	+ +	✓			✓
General Essay	CO-3	+ +	· ✓			·
	CO-4		· ·			·
		+	▼ ✓	✓		•
	CO-5	<u> </u>	•	-		*
	<u>CO-1</u>	<u> </u>	✓ ✓	✓		✓
Literary Criticism	<u>CO-2</u>	+	¥	✓ ✓	✓ ✓	
	CO-3		\checkmark	v	✓	✓

	CO-4	✓	✓	✓	✓	
	CO-5		✓	✓	✓	✓
Mass	CO-1	✓		✓	✓	
Communication	CO-2	✓		✓	√	
and Film Studies	CO-3	✓			√	
	CO-4	✓			√	
	CO-5	✓				
Project Viva voce	CO-1	✓			\checkmark	
	CO-2	✓		✓	\checkmark	
	CO-3	✓			✓	
	CO-4	\checkmark			\checkmark	
	CO-5	✓			✓	

DEPARTMENT OF MATHEMATICS

Algebra & Trigonometry UMSM11E CO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Differential Calculus CO-2 \checkmark \checkmark \checkmark \checkmark Differential Calculus CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark UMSM21E CO-4 \checkmark \checkmark \checkmark \checkmark Differential Equation CO-2 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Tomsform CO-2 \checkmark	Core paper	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
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$\begin{tabular}{ c c c c c c } \hline CO-4 & \checkmark & & \checkmark & & \checkmark & & & & & & & & & & & $							
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Calculus UMSM12E CO-2 \checkmark \checkmark \checkmark \checkmark C0-3 \checkmark \checkmark \checkmark \checkmark \checkmark C0-4 \checkmark \checkmark \checkmark \checkmark \checkmark C0-4 \checkmark \checkmark \checkmark \checkmark \checkmark C0-5 \checkmark \checkmark \checkmark \checkmark \checkmark Integral Calculus CO-2 \checkmark \checkmark \checkmark \checkmark C0-1 \checkmark \checkmark \checkmark \checkmark \checkmark C0-5 \checkmark \checkmark \checkmark \checkmark \checkmark Differential Equation CO-3 \checkmark \checkmark \checkmark \checkmark DMMM21E CO-3 \checkmark \checkmark \checkmark \checkmark C0-1 \checkmark \checkmark \checkmark \checkmark \checkmark Differential Equation CO-3 \checkmark \checkmark \checkmark \checkmark C0-1 \checkmark \checkmark \checkmark \checkmark \checkmark Fourier series CO-1 \checkmark	Differential						
UMSM12E CO-3 \checkmark \checkmark \checkmark \checkmark C0-4 \checkmark \checkmark \checkmark \checkmark \checkmark C0-5 \checkmark \checkmark \checkmark \checkmark \checkmark C0-5 \checkmark \checkmark \checkmark \checkmark \checkmark Integral Calculus CO-1 \checkmark \checkmark \checkmark \checkmark C0-1 \checkmark \checkmark \checkmark \checkmark \checkmark C0-1 \checkmark \checkmark \checkmark \checkmark \checkmark C0-1 \checkmark \checkmark \checkmark \checkmark \checkmark Differential Equation CO-2 \checkmark \checkmark \checkmark \checkmark Differential CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Equation CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Torsofterseries CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark						✓	
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Calculus UMSM21E CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Differential Equation UMSM21E CO-2 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Equation UMSM21E CO-2 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Fourier series and Integral Transform CO-1 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Transform CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark Geometry CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Allied CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Mumerical CO-2 \checkmark	Integral						
UMSM21E $CO-4$ \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Differential CO-1 \checkmark \checkmark \checkmark \checkmark Differential CO-2 \checkmark \checkmark \checkmark \checkmark Differential CO-2 \checkmark \checkmark \checkmark \checkmark UMSM21E CO-4 \checkmark \checkmark \checkmark \checkmark UMSM21E CO-4 \checkmark \checkmark \checkmark \checkmark UMSM21E CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Transform CO-2 \checkmark \checkmark \checkmark \checkmark Geometry CO-1 \checkmark \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark \checkmark Allied CO-1 \checkmark \checkmark \checkmark \checkmark Mathematical CO-2 \checkmark <							•
$CO-5$ \checkmark \checkmark \checkmark \checkmark Differential Equation UMSM21E $CO-2$ \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark DMSM21E CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark Fourier series and Integral Transform CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Transform CO-2 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark \checkmark Geometry CO-3 \checkmark \checkmark \checkmark \checkmark Allied CO-1 \checkmark \checkmark \checkmark \checkmark <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
$OO-1$ \checkmark \checkmark \checkmark Differential Equation UMSM21E $OO-2$ \checkmark \checkmark \checkmark \checkmark $OO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark Fourier series $OO-4$ \checkmark \checkmark \checkmark \checkmark and Integral $OO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark Transform $OO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark Geometry $OO-2$ \checkmark \checkmark \checkmark \checkmark \checkmark Geometry $OO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark Mathematical $OO-1$ \checkmark \checkmark \checkmark \checkmark \checkmark Statistics -I $OO-3$ \checkmark \checkmark \checkmark	UNISNIZIE					•	•
Differential Equation UMSM21E \bigcirc \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Fourier series CO-2 \checkmark \checkmark \checkmark \checkmark and Integral CO-3 \checkmark \checkmark \checkmark \checkmark Transform CO-4 \checkmark \checkmark \checkmark \checkmark Geometry CO-1 \checkmark \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark \checkmark Geometry CO-1 \checkmark \checkmark \checkmark \checkmark Mathematical CO-2 \checkmark \checkmark \checkmark \checkmark Statistics -I CO-3 \checkmark \checkmark \checkmark \checkmark Numerical CO-4 \checkmark							•
Equation UMSM21E $\ensuremath{\mathbb{C}}\mathbb{C$					▼	v	
UMSM21E $CO-4$ \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark Fourier series CO-1 \checkmark \checkmark \checkmark and Integral CO-3 \checkmark \checkmark \checkmark Transform CO-4 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark Analytical CO-1 \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark Mathematical CO-2 \checkmark \checkmark \checkmark Statistics -I CO-3 \checkmark \checkmark \checkmark Numerical CO-1 \checkmark \checkmark \checkmark \checkmark Numerical CO-3 <t< td=""><td></td><td></td><td>· · ·</td><td></td><td>√</td><td>√</td><td>√</td></t<>			· · ·		√	√	√
$OO-5$ \checkmark \checkmark \checkmark Fourier series and Integral Transform $OO-2$ \checkmark \checkmark \checkmark $OO-3$ \checkmark \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark $OO-5$ \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark $OO-5$ \checkmark \checkmark \checkmark $OO-5$ \checkmark \checkmark \checkmark $OO-5$ \checkmark \checkmark \checkmark $OO-1$ \checkmark \checkmark \checkmark $OO-2$ \checkmark \checkmark \checkmark $OO-3$ \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark $OO-3$ \checkmark \checkmark \checkmark $OO-4$ \checkmark \checkmark \checkmark $OO-1$ \checkmark \checkmark \checkmark $OO-2$ \checkmark \checkmark \checkmark $OO-1$ \checkmark					✓	√	✓
Fourier series and Integral Transform CO-1 \checkmark \checkmark \checkmark Transform CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Analytical Geometry CO-1 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Co-5 \checkmark \checkmark \checkmark \checkmark Co-4 \checkmark \checkmark \checkmark \checkmark Co-3 \checkmark \checkmark \checkmark \checkmark Co-4 \checkmark \checkmark \checkmark \checkmark Co-5 \checkmark \checkmark \checkmark \checkmark Mathematical Statistics -I CO-1 \checkmark \checkmark \checkmark \checkmark Numerical Methods CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark	UMSM21E						
Fourier series $\bigcirc O - 2$ \checkmark \bigcirc \bigcirc and Integral $\bigcirc O - 3$ \checkmark \checkmark \checkmark \checkmark Transform $\bigcirc O - 4$ \checkmark \checkmark \checkmark \checkmark $\frown O - 4$ \checkmark \checkmark \checkmark \checkmark \checkmark Analytical $\bigcirc O - 1$ \checkmark \checkmark \checkmark \checkmark Geometry $\bigcirc O - 2$ \checkmark \checkmark \checkmark \checkmark $\bigcirc C - 2$ \checkmark \checkmark \checkmark \checkmark \checkmark $\bigcirc C - 3$ \checkmark \checkmark \checkmark \checkmark \checkmark $\bigcirc C - 2$ \checkmark \checkmark \checkmark \checkmark \checkmark \land \bigcirc \checkmark \checkmark						✓	
and Integral Transform \bigcirc \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Analytical Geometry CO-1 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Geometry CO-2 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Allied CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Mathematical CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark Numerical CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3						✓	
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$OO - 5$ \checkmark \checkmark \checkmark \checkmark Analytical Geometry $OO - 1$ \checkmark \checkmark \checkmark \checkmark $OO - 2$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO - 2$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO - 2$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO - 3$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO - 4$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO - 5$ \checkmark \checkmark \checkmark \checkmark \checkmark Allied $OO - 1$ \checkmark \checkmark \checkmark \checkmark Mathematical $OO - 2$ \checkmark \checkmark \checkmark \checkmark $OO - 3$ \checkmark \checkmark \checkmark \checkmark \checkmark $OO - 4$ \checkmark \checkmark \checkmark \checkmark \checkmark Numerical $OO - 2$ \checkmark \checkmark \checkmark \checkmark $OO - 3$ \checkmark \checkmark							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Transform				√	 ✓ 	
Geometry $CO-2$ \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark \checkmark Allied $CO-1$ \checkmark \checkmark \checkmark \checkmark Mathematical $CO-2$ \checkmark \checkmark \checkmark \checkmark Statistics -I $CO-3$ \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark Numerical $CO-2$ \checkmark \checkmark \checkmark \checkmark $Methods$ $CO-3$ \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark \checkmark \checkmark					\checkmark	✓	
CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Allied CO-1 \checkmark \checkmark \checkmark \checkmark Mathematical CO-2 \checkmark \checkmark \checkmark \checkmark Statistics -I CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Numerical CO-2 \checkmark \checkmark \checkmark \checkmark Numerical CO-3 \checkmark \checkmark \checkmark \checkmark Statics CO-4 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Statics CO-1 \checkmark \checkmark \checkmark \checkmark			✓		\checkmark	✓	✓
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Geometry		✓				✓
$OO 1$ $OO 0$ $OO 0$ Allied $OO -1$ \checkmark \checkmark \checkmark Mathematical $OO -2$ \checkmark \checkmark \checkmark Statistics -I $OO -3$ \checkmark \checkmark \checkmark $OO -4$ \checkmark \checkmark \checkmark \checkmark $OO -5$ \checkmark \checkmark \checkmark \checkmark Numerical $OO -2$ \checkmark \checkmark \checkmark $OO -1$ \checkmark \checkmark \checkmark \checkmark $OO -2$ \checkmark \checkmark \checkmark $OO -3$ \checkmark \checkmark \checkmark $OO -4$ \checkmark \checkmark \checkmark $OO -5$ \checkmark \checkmark \checkmark $OO -4$ \checkmark \checkmark \checkmark $OO -5$ \checkmark \checkmark \checkmark $OO -5$ \checkmark \checkmark \checkmark $OO -2$ \checkmark \bullet </td <td></td> <td>CO-3</td> <td>✓</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td>		CO-3	✓		✓	✓	✓
Allied Mathematical Statistics -ICO-1 \checkmark <t< td=""><td></td><td>CO-4</td><td>\checkmark</td><td></td><td></td><td></td><td></td></t<>		CO-4	\checkmark				
Mathematical Statistics -ICO-1 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark Numerical MethodsCO-2 \checkmark CO-3 \checkmark \checkmark CO-4 \checkmark \checkmark CO-5 \checkmark \checkmark CO-1 \checkmark \checkmark CO-2 \checkmark \checkmark CO-4 \checkmark \checkmark CO-5 \checkmark \checkmark CO-1 \checkmark \checkmark StaticsCO-2 \checkmark		CO-5	~				
Statistics -I $\overrightarrow{CO-3}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{CO-4}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{CO-5}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-1}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-2}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-2}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\frown}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-2}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\frown}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-3}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\frown}$ $\overrightarrow{\frown}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-4}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\frown}$ $\overrightarrow{\frown}$ $\overrightarrow{Numerical}$ $\overrightarrow{CO-5}$ $\overrightarrow{\checkmark}$ $\overrightarrow{\frown}$ $\overrightarrow{\frown}$ $\overrightarrow{Numerical}$ $\overrightarrow{O-5}$ $\overrightarrow{\frown}$ $\overrightarrow{\frown}$ $\overrightarrow{\frown}$ $\overrightarrow{Numerical}$ $\overrightarrow{O-5}$ \frown	Allied	CO-1	~	✓	✓	✓	~
$CO-4$ \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark \checkmark $CO-1$ \checkmark \checkmark \checkmark \checkmark $CO-2$ \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark $CO-1$ \checkmark \checkmark \checkmark Statics $CO-2$ \checkmark \checkmark	Mathematical	CO-2	\checkmark		✓	 ✓ 	
$CO \cdot 4$ \checkmark \checkmark \checkmark $CO \cdot 5$ \checkmark \checkmark \checkmark \checkmark $CO \cdot 1$ \checkmark \checkmark \checkmark \checkmark $CO \cdot 2$ \checkmark \checkmark \checkmark $CO \cdot 3$ \checkmark \checkmark \checkmark $CO \cdot 4$ \checkmark \checkmark \checkmark $CO \cdot 5$ \checkmark \checkmark \checkmark $CO \cdot 1$ \checkmark \checkmark Statics $CO \cdot 2$ \checkmark \checkmark	Statistics -I	CO-3	✓	✓	✓	✓	
Numerical Methods $\begin{array}{c ccccccccccccccccccccccccccccccccccc$		CO-4	✓		✓	✓	
Numerical Methods $\begin{array}{c ccccccccccccccccccccccccccccccccccc$		CO-5	✓	✓	✓	✓	
Numerical Methods $CO-2$ \checkmark \checkmark CO-3 \checkmark \checkmark CO-4 \checkmark \checkmark CO-5 \checkmark \checkmark CO-1 \checkmark \checkmark StaticsCO-2 \checkmark			√				
Methods $CO-3$ \checkmark \checkmark $CO-4$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-1$ \checkmark \checkmark Statics $CO-2$ \checkmark	Numerical		√				-
$CO-4$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-1$ \checkmark \checkmark Statics $CO-2$ \checkmark	Methods		√				
CO-5 \checkmark \checkmark CO-1 \checkmark \checkmark StaticsCO-2 \checkmark			√		✓		
CO-1 \checkmark StaticsCO-2 \checkmark			√		✓		
Statics CO-2 🗸 🖌			✓				
	Statics		✓		✓		
		CO-3	✓				

B. SC MATHEMATICS

[]	~~ (-	
	<u>CO-4</u>	√				
	CO-5	√	ļ	✓		
Allied	CO-1	✓	✓	✓	✓	✓
Mathematical	CO-2	✓	✓	✓	✓	
Statistics -II	CO-3	✓	✓	✓	✓	
	CO-4	✓				
	CO-5	✓	✓	✓	✓	
Allied	CO-1	✓	✓	✓	✓	✓
Practical	CO-2	✓	✓	✓	✓	
Mathematical	CO-3	✓	✓	✓	✓	
Statistics –I	CO-4	✓				
& II	CO-5	√	✓	✓	✓	
Algebra-I	CO-1	\checkmark			✓	
	CO-2	\checkmark			\checkmark	
	CO-3	\checkmark		\checkmark	✓	
	CO-4	\checkmark		\checkmark		
	CO-5	\checkmark		\checkmark	✓	
Real	CO-1	✓		✓		
Analysis-I	CO-2	\checkmark			 ✓ 	
	CO-3	\checkmark		✓	✓	
	CO-4	✓		✓		
	CO-5	✓		✓	✓	
Dynamics	CO-1	\checkmark				
-	CO-2	\checkmark	\checkmark			
-	CO-3	\checkmark	\checkmark			
-	CO-4	\checkmark	\checkmark		\checkmark	
	CO-5	\checkmark		\checkmark	\checkmark	\checkmark
Elective-1	CO-1	✓		✓	✓	
Graph theory	CO-2	✓		✓	✓	
	CO-3	\checkmark		✓	✓	
	CO-4	\checkmark			✓	
	CO-5	✓				
Elective-1	CO-1	✓				
С	CO-2	✓		✓	✓	
Programming	CO-3	✓		✓	✓	
	CO-4	✓			✓	
	CO-5	✓		✓		✓
Algebra-II	CO-1	\checkmark				
	CO-2	\checkmark				
	CO-3	\checkmark	\checkmark	\checkmark		\checkmark
	CO-4	\checkmark		\checkmark		
	CO-5	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Real	CO-1	✓		✓	✓	
Analysis-II	CO-2	\checkmark		✓	✓	
	CO-3	✓				
[CO-4	\checkmark				
	CO-5	✓		✓	✓	
	CO-1	\checkmark		✓	\checkmark	

Complex	CO-2	\checkmark	\checkmark	✓	
Analysis	CO-3	\checkmark		\checkmark	
	CO-4	\checkmark			
	CO-5	\checkmark	\checkmark	\checkmark	
Operation	CO-1	\checkmark	\checkmark	\checkmark	\checkmark
Research	CO-2	\checkmark	\checkmark	\checkmark	
	CO-3	\checkmark	\checkmark	\checkmark	
	CO-4	\checkmark	✓	✓	
	CO-5	\checkmark	\checkmark	~	
Elective-1	CO-1	\checkmark			
Matrix	CO-2	\checkmark	✓		
Theory	CO-3	\checkmark	✓		
	CO-4	\checkmark			
	CO-5	\checkmark			\checkmark

M. SC MATHEMATICS

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

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

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

DEPARTMENT OF PHYSICS

B. SC PHYSICS

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome					
MECHANICS	CO-1					
AND	CO-2					
PROPERTIES	CO-3					
OF MATTER	CO-4					
(UPHM11D)	CO-5					\checkmark
THERMAL	CO-1	\checkmark				
PHYSICS AND	CO-2		\checkmark			
ACOUSTICS	CO-3					
(UPHM21D)	CO-4					
	CO-5					
OPTICS	CO-1	\checkmark				
(UPHM31D)	CO-2					
	CO-3	\checkmark				
	CO-4					,
	CO-5					
ATOMIC	CO-1					
PHYSICS	CO-2					
(UPHM41C)	CO-3					
	CO-4					
	CO-5					
ELECTRICITY	CO-1					
AND	CO-2					
MAGNETISM	CO-3					
(UPHM51C)	CO-4					
	CO-5	V				
NUCLEAR	CO-1					
PHYSICS AND	CO-2		√			
PARTICLE	CO-3					
PHYSICS	CO-4					1
(UPHM52A)	CO-5	\checkmark				\checkmark
SOLID STATE	CO-1					
PHYSICS	CO-2		\checkmark			
(UPHM53A)	CO-3					
	CO-4					
	CO-5					\checkmark
BASIC	CO-1	\checkmark	\checkmark			
ELECTRONIC	CO-2					\checkmark
(UPHM54C)	CO-3	\checkmark		\checkmark		
	CO-4					
	CO-5					\checkmark
	00-5					N

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

M. SC PHYSICS

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

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome	1001	1001	1000	1201	
	CO-1		✓			
NANO SCIENCE	<u>CO-2</u>		✓			
(PPHE22D)	CO-3			✓		
(111111111)	<u>CO-4</u>				 ✓ 	
	CO-4 CO-5				· ·	
BASIC MATERIALS	<u>CO-3</u> CO-1		✓ ✓			
SCIENCE (PPHE21D)	CO-1 CO-2		· · ·			
SCIENCE (IT HE21D)	CO-2 CO-3		•	✓		
	<u>CO-3</u> CO-4			•	✓	
	CO-4 CO-5				· ·	
		✓			•	2
QUANTUM MECHANICS-II	<u>CO-1</u>	•	✓			
	<u>CO-2</u>		•	✓		
(PPHM31D)	<u>CO-3</u>	1		•		
	<u>CO-4</u>	V		1	 ✓ 	
	<u>CO-5</u>	1		N		✓
CONDENSED	CO-1		✓		N	
MATTER PHYSICS	CO-2		✓			
(PPHM32D)	CO-3			✓		
	CO-4					
	CO-5					✓
COMPUTATIONAL	CO-1		✓		✓	
METHODS AND	CO-2		✓			
PROGRAMMING	CO-3			✓		
(PPHM33C)	CO-4				✓	
	CO-5				✓	
CRYSTAL GROWTH	CO-1		✓			
(PPHA31C)	CO-2		✓			
	CO-3			✓		
	CO-4				✓	
	CO-5				✓	
ADVANCED	CO-1		✓			
MATERIALS	CO-2		✓			
SCIENCE (PPHA32D)	CO-3			✓		
	CO-4				✓	
	CO-5				 ✓ 	
Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome					
NUCLEAR AND	CO-1	✓			+ +	
PARTICLE PHYSICS	CO-1 CO-2		✓		<u>}</u>	· ·
(PPHM41D)	CO-2 CO-3		·	✓	+ +	
(CO-3 CO-4			,	✓	
	CO-4 CO-5					✓
MICROPROCESSOR	CO-3 CO-1	v	✓			-
8086 AND	CO-1 CO-2		• •		v	
MICROCONTROLLER			•	✓	+	
8051 (PPHA41C)	CO-3			1	 ✓ 	
0031 (11114410)	CO-4				✓ ✓	
	CO-5		 Image: A start of the start of		▼	
	CO-1		v			

ENERGY	PHYSICS	CO-2	✓			
(PPHA42D)		CO-3		\checkmark		
		CO-4			✓	
		CO-5			\checkmark	

DEPARTMENT OF BIOCHEMISTRY

B. SC BIOCHEMISTRY

Course Subject Code	Course Outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Coue	CO-1	✓			✓	
	<u> </u>	✓	✓	✓	✓	✓
Nutritional	CO-3	 ✓ 		✓	✓	✓
Biochemistry UBYM11C	CO-4	✓		✓	✓	✓
-	CO-5	✓				
	CO-1	✓				
Health and	CO-2	✓	✓	✓	✓	
Nutrition	CO-3	✓	✓	✓	✓	
NMBY11C	CO-4	✓	✓	✓	✓	
	CO-5	✓				
	CO-1	 ✓ 			✓	✓
	CO-2	✓		✓	✓	
Cell Biology	CO-3	✓		✓	✓	
UBYM21C	CO-4	✓		✓	✓	\checkmark
	CO-5	✓		✓	✓	\checkmark
	CO-1	✓				
Human diseases	CO-2	✓	✓	✓	√	\checkmark
and Preventive	CO-3	✓	✓	✓	✓	\checkmark
aspects NMBY21C	CO-4	✓	✓	✓	✓	
INMET 21C	CO-5	✓	✓			
	CO-1		✓		✓	✓
	CO-2		✓	✓		
Practical-I	CO-3	✓	✓		✓	✓
UBYL21C	CO-4	✓	✓	✓		\checkmark
	CO-5		✓	✓	✓	
	CO-1	✓				
Chemistry of	CO-2	✓		✓	✓	
Biomolecules – I	CO-3		✓			
UBYM31C	CO-4	✓			✓	
	CO-5			✓		\checkmark
	CO-1	 ✓ 				
Chemistry of	CO-2	 ✓ 		✓		
Biomolecules – II	CO-3		✓		✓	
UBYM41C	CO-4	✓			✓	✓
	CO-5	✓		✓		
	CO-1		✓			✓
Practical-II	CO-2		✓			
UBYL41C	CO-3		✓	✓		✓
	CO-4		✓	✓		✓

	CO-5		✓	✓		✓
	CO-1	✓			✓	
_	CO-2	 ✓ 	✓	✓	✓	
Enzymes	CO-3		✓	✓		✓
UBYM51C	CO-4					✓
	CO-5			✓	✓	
	CO-1	 ✓ 				
	CO-2	✓		✓	✓	
Metabolism	CO-3	✓		✓		
UBYM52C	CO-4			✓		
_	CO-5			✓	✓	
	CO-1	 ✓ 	✓		✓	
Analytical	CO-2	✓	✓	✓		
Biochemistry UBYM53C	CO-3	✓	✓		✓	√
UBYM53C	CO-4	✓	✓	✓		
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓			✓	✓
	CO-2	✓	✓	✓	✓	\checkmark
Physiology UBYA51C	CO-3	✓		✓	\checkmark	
UDIAJIC	CO-4	✓		\checkmark	✓	√
	CO-5	✓		✓	✓	√
	CO-1	✓		✓		
Clinical	CO-2	✓		✓		
Biochemistry	CO-3	✓	✓	✓		√
UBYM61C -	CO-4		✓	✓		√
	CO-5		✓	✓	✓	√
	CO-1	✓	✓	✓	✓	√
Molecular	CO-2	✓		✓	✓	
Biology	CO-3	✓		✓	✓	
UBYM62C	CO-4	✓		✓	✓	
	CO-5	✓		✓	✓	
	CO-1	✓		✓	✓	√
	CO-2	✓	✓	✓	✓	✓
Immunology	CO-3	✓		✓	✓	✓
UBYA61C	CO-4	✓		✓	✓	✓
	CO-5	✓	✓	✓		✓
	CO-1	✓		✓	✓	
F	<u> </u>	✓	✓	✓	✓ (
Biotechnology	CO-3	 ✓ 		✓	✓	
UBYA62C	CO-4	 ✓ 			✓	✓
F	CO-5	✓	✓		✓	✓
	CO-1		· ·			· · · · · · · · · · · · · · · · · · ·
Practical-III	CO-2	+ +	✓			✓
UBYL61C	CO-2 CO-3	+ +	· · · · · · · · · · · · · · · · · · ·			 ✓
	CO-4		-			· ✓

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

M.SC BIOCHEMISTRY

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

Energy and Drug	CO-1	✓		✓	✓	
metabolism PBYA21C	CO-2	✓		✓	✓	
	CO-3	✓		✓	✓	
-	CO-4					
-	CO-5	✓			✓	
Essentials of	CO-1	✓	✓			✓
Biochemistry	CO-2	✓	✓	✓		✓
PBYE21C	CO-3					✓
_	CO-4		-	✓		
	CO-4 CO-5			•	✓	
		•			•	
Practical-I PBYL11C –	CO-1		✓			
IDILIIC	CO-2		✓	✓		✓
	CO-3		✓	✓	\checkmark	
	CO-4		✓	✓		
	CO-5		✓		✓	✓
Practical-II	CO-1		✓	✓	✓	
PBYL21C -	CO-2		✓			✓
-	CO-3	✓	✓			✓
	CO-4		✓	✓	✓	✓
	CO-5		✓	✓		
Biotechnology	CO-1	✓		✓	√	
PBYM31C	CO-2	✓	✓		✓	✓
	CO-3	✓		\checkmark		
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓		✓	
Clinical Biochemistry-I —	CO-1		✓		✓	✓
PBYM32C	CO-2	✓	1	✓	\checkmark	✓
	CO-3	✓		✓	√	~
	CO-4	✓	√			✓
	CO-5		✓	✓	✓	✓
Molecular biology	CO-1	~		✓	✓	✓
PBYM33C -	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	CO-4	✓		✓	✓	✓
F	CO-5	✓	✓	✓	✓	✓

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

DEPARTMENT OF COMPUTER SCIENCE

B.SC COPUTER SCIENCE

Subject Code outcome \sim \sim \sim Programming in C CO-1 \sim \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark Programming in C Lab CO-2 \checkmark \checkmark \checkmark \checkmark CD-3 \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Digital Electronics CO-1 \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics CO-1 \checkmark \checkmark \checkmark \checkmark Lab CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark <th>Course</th> <th>Course</th> <th>PSO-1</th> <th>PSO-2</th> <th>PSO-3</th> <th>PSO-4</th> <th>PSO-5</th>	Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Programming in C CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C Lab CO-1 \checkmark \checkmark \checkmark \checkmark C0-4 \checkmark \checkmark \checkmark \checkmark \checkmark C Lab CO-3 \checkmark \checkmark \checkmark \checkmark C Lab CO-4 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-1 \checkmark \checkmark \checkmark \checkmark Digital Electronics CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark \checkmark Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C+ and Data CO-1	Subject Code	outcome					
C CO-3 \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark Programming in C Lab CO-1 \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark C Lab CO-3 \checkmark \checkmark \checkmark C Lab CO-1 \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark K CO-2 \checkmark \checkmark \checkmark Microprocessors Lab CO-1 \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark	-			,			
CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C Lab CO-1 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark C Lab CO-3 \checkmark \checkmark \checkmark \checkmark C Lab CO-1 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark	-					~	
CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark C Lab CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark C Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark Microprocessors Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark	С		•				
Programming in C Lab CO-1 \checkmark \checkmark \checkmark \checkmark C Lab CO-3 \checkmark \checkmark \checkmark \checkmark C Lab CO-4 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab	-					÷	
Programming in C Lab CO-2 \checkmark \checkmark \checkmark \checkmark C Lab CO-3 \checkmark \checkmark \checkmark \checkmark C O-4 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark Microprocessors CO-1 \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark \checkmark Lab CO-4 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark \checkmark Lab CO-3 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark <			✓	✓	✓	~	\checkmark
C Lab CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark C0-4 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark Digital Electronics & CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Microprocessors Lab CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in L++ and Data Structures Lab CO-1 <t< td=""><td></td><td></td><td>✓</td><td></td><td></td><td></td><td></td></t<>			✓				
Construction	Programming in	CO-2	✓				
Image: Constant of the second seco	C Lab	CO-3	✓	✓			
Digital Electronics & Microprocessors CO-1 \checkmark Image: constraint of the structure state state structure state state structure state		CO-4		✓	✓		\checkmark
Digital Electronics $CO-2$ \checkmark \checkmark \checkmark Microprocessors $CO-3$ \checkmark \checkmark \checkmark \checkmark Digital Electronics $CO-1$ \checkmark \checkmark \checkmark \checkmark Digital Electronics $CO-1$ \checkmark \checkmark \checkmark \checkmark Microprocessors $CO-2$ \checkmark \checkmark \checkmark \checkmark Lab $CO-4$ \checkmark \checkmark \checkmark \checkmark Programming in $CO-4$ \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO-1$ \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO-4$ \checkmark \checkmark \checkmark \checkmark CO-4	-	CO-5		✓	✓	✓	\checkmark
$\&$ $1 \\ CO.2$ $1 \\ CO.3$ $1 \\ CO.4$ $1 \\ CO.5$ <td></td> <td>CO-1</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td>		CO-1	✓				
Microprocessors \bigcirc \checkmark \checkmark \checkmark \bigcirc CO-4 \checkmark \checkmark \checkmark \checkmark \bigcirc CO-5 \checkmark \checkmark \checkmark \checkmark Digital Electronics \bigcirc \checkmark \checkmark \checkmark $\&$ \bigcirc \checkmark \checkmark \checkmark \checkmark $Microprocessors \bigcirc \bigcirc \checkmark \checkmark \checkmark Lab \bigcirc \checkmark \checkmark \checkmark \checkmark Programming in \bigcirc \bigcirc \checkmark \checkmark \checkmark \checkmark Programming in \bigcirc \bigcirc \checkmark \checkmark \checkmark \checkmark Programming in \bigcirc $		CO-2	✓				
$CO.4$ \checkmark \checkmark \checkmark \checkmark Digital Electronics $CO.1$ \checkmark \checkmark \checkmark \checkmark $\&$ $CO.2$ \checkmark \checkmark \checkmark \checkmark Microprocessors $CO.3$ \checkmark \checkmark \checkmark \checkmark Lab $CO.4$ \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO.1$ \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO.1$ \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO.1$ \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO.4$ \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO.1$ \checkmark \checkmark \checkmark \checkmark \checkmark Brow $CO.4$ \checkmark \checkmark \checkmark \checkmark \checkmark Programming in $CO.4$ \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark		CO-3	✓				
Digital Electronics CO-1 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark \checkmark Lab CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Structures CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Recurs Lab CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Java CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark	Microprocessors	CO-4	✓	✓		✓	
$\&$ CO-2 \checkmark \checkmark \checkmark Microprocessors CO-3 \checkmark \checkmark \checkmark Lab CO-4 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in Java CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark		CO-5	✓	✓	✓	✓	✓
	Digital Electronics	CO-1	✓	✓			
Lab CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-2 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-4 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-2 \checkmark \checkmark \checkmark \checkmark Programming in L++ and Data Structures Lab CO-3 \checkmark \checkmark \checkmark \checkmark Image: Co-3 \checkmark \checkmark \checkmark \checkmark \checkmark Juan CO-1 \checkmark Image: D Image: D Image: D Juan CO-3 \checkmark Image: D Image: D Image: D Ima	-	CO-2		✓			
Lab CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-2 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures CO-4 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-2 \checkmark \checkmark \checkmark \checkmark Programming in CO-3 CO-3 \checkmark \checkmark \checkmark \checkmark Java CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in Java CO-3 \checkmark	Microprocessors	CO-3		✓			
Programming in C++ and Data Structures CO-1 \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-3 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-3 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-3 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-4 \checkmark \checkmark \checkmark \checkmark Programming In Java CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark Programming In Java CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark	Lab	CO-4	✓	✓	✓	✓	✓
Programming in C++ and Data Structures $CO-2$ \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab $CO-1$ \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark CO-6 \checkmark \checkmark \checkmark CO-7 \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark CO-4 \checkmark <td>-</td> <td>CO-5</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td>	-	CO-5	✓	✓	✓	✓	✓
C++ and Data CO-2 \checkmark \checkmark \checkmark \checkmark Structures CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in CO-1 \checkmark \checkmark \checkmark \checkmark Programming in CO-2 \checkmark \checkmark \checkmark \checkmark Structures Lab CO-3 \checkmark \checkmark \checkmark \checkmark Programming In CO-3 \checkmark \checkmark \checkmark \checkmark Programming In CO-2 \checkmark \checkmark \checkmark \checkmark Java CO-1 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Programming In CO-1 \checkmark \checkmark \checkmark \checkmark Java CO-3 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Programming In CO-2 \checkmark <		CO-1	✓				
Structures CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark Programming In Java CO-1 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Programming In Java CO-2 \checkmark \checkmark \checkmark \checkmark		CO-2	✓	✓			
CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Programming in C++ and Data Structures Lab CO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark Programming In Java CO-3 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark Programming In Java CO-3 \checkmark \checkmark \checkmark \checkmark		CO-3	✓	✓		✓	
CO-5Image: style	Structures	CO-4	✓	✓		✓	✓
Programming in C++ and Data Structures LabCO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark Programming In JavaCO-3 \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark	-		✓	✓	✓	✓	✓
Programming in C++ and Data Structures Lab $CO-2$ \checkmark \checkmark $($ CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark Programming In JavaCO-3 \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \Box \Box \checkmark \checkmark \checkmark \Box \Box \checkmark \checkmark \checkmark \Box \Box \checkmark \checkmark \checkmark			✓	✓			
C++ and Data Structures LabCO-3Image: structure set of the s				✓			
Structures Lab $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark \checkmark \checkmark Γ \checkmark \checkmark \checkmark \checkmark \checkmark Programming In Java $CO-2$ \checkmark \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark				✓			
CO-5 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark Programming In JavaCO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark	Structures Lab		✓	✓	 ✓ 	 ✓ 	✓
Programming In JavaCO-1 \checkmark Image: Co-1CO-2 \checkmark Image: Co-1Image: Co-1CO-3 \checkmark \checkmark Image: Co-1CO-4 \checkmark \checkmark Image: Co-1	-		✓	✓	✓	 ✓ 	✓
Programming In JavaCO-2Image: CO-2CO-3Image: CO-3Image: CO-4CO-4Image: CO-4Image: CO-4			✓			+	
Java CO-3 ✓ ✓ ✓ CO-4 ✓ ✓ ✓ ✓	Programming In		✓				
CO-4 🗸 🖌 🖌			✓	✓			
			✓	✓		✓	
		CO-5	✓	✓	✓	✓	✓

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Coue	CO-1	✓	✓			
Java Programming	CO-1 CO-2	•	· ✓			
Lab	CO-2 CO-3		· •			
Lab	CO-4	✓	· •	✓	✓	✓
	CO-4 CO-5	· ✓	· •	 ✓		 ✓
	CO-3	✓				
Relational Database	CO-2	✓	✓		✓	
Management Systems	CO-3	✓	✓		✓ ×	
Management Systems	CO-4	✓	✓		✓	✓
	CO-5	✓	✓	✓		✓
	CO-1	✓				
Object Oriented	CO-2	✓				
Analysis and Design	CO-3	~			✓	
	CO-4	✓			✓	✓
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓				
	CO-2	✓			✓	
Operating System	CO-3	✓	✓			✓
	CO-4	✓	✓		✓	✓
	CO-5	✓		✓	✓	✓
	CO-1	✓				
	CO-2	✓				
Visual Programming	CO-3	✓				
	CO-4		✓		✓	
	CO-5	✓	√	✓		\checkmark
	CO-1	✓	✓			
	CO-2		√			
RDBMS-Lab	CO-3		√			
	CO-4	✓	√	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓				
	CO-2		✓		✓	
Computer Networks	CO-3	✓	✓		 ✓ 	
	CO-4	✓	✓	√		√
	CO-5	✓	✓	✓		✓

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome	150-1	150-2	150-5	150-4	150-5
	CO-1	√				
Wah Taabbalaay	CO-2		\checkmark			
Web Technology	CO-3	✓	✓			
	CO-4	√	✓			
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓				
	CO-2	✓				
E-Commerce	CO-3				✓	
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
	CO-1	✓				
	CO-2		✓			
Software Testing	CO-3	✓	✓	✓		
	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓	✓			
	CO-2		✓			
Web Technology Lab	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
0	CO-1	✓				
	CO-2				 ✓ 	
System Software	CO-3	✓			 ✓ 	
	CO-4	√	✓	✓	 ✓ 	✓
	CO-5	✓	✓	✓		✓
	CO-1	✓				
Advanced Java Programming	CO-2		✓			
	CO-3		✓			
	CO-4	✓	✓			
	CO-5	✓	✓	✓	 ✓ 	✓
Design and	CO-1	✓				
Analysis of	CO-2				✓	✓
-	CO-3	✓			✓	✓
Algorithms	CO-4		✓		✓	✓
-	CO-5	√	✓	✓	✓	✓
	CO-1	✓				
Principles of	CO-2				✓	✓
Compiler Design	CO-3	✓			✓	✓
	CO-4	✓		✓	 ✓ 	✓
	CO-5	✓	✓	✓	✓	✓
Advanced Java	CO-1	✓	✓			
	CO-2		✓			
Programming	CO-3		✓			
Lab.	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
	CO-1	✓	✓			
Algorithms Lab	CO-2		✓			
ingoriumis Dab	CO-3		✓			
-	CO-4	√	✓	✓	✓	✓
	CO-5	√	✓	✓	✓	✓
<u> </u>	CO-1	√				
Computer	CO-2		✓		✓	
Networks	CO-3	✓	✓		✓	
	CO-4	√	✓	✓		✓
	CO-5	√	✓	✓	1	✓

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome		150-2	150-5	150-4	150-5
Digital Imaga	CO-1	\checkmark				
Digital Image	CO-2	\checkmark				
Processing	CO-3				✓	\checkmark
	CO-4	\checkmark		✓	✓	\checkmark
	CO-5	\checkmark	~	✓	✓	\checkmark
Theoretical	CO-1	\checkmark				
Foundations of	CO-2				✓	
	CO-3	√			✓	\checkmark
Computer Science	CO-4	√	✓		✓	✓
	CO-5	√	✓	✓	✓	\checkmark
	CO-1	✓				
Mobile Computing	CO-2	\checkmark				
Woone Computing	CO-3	\checkmark				
	CO-4		✓			✓
	CO-5	\checkmark	✓	✓	✓	
	CO-1		✓			
RDBMS Lab	CO-2	\checkmark	✓			\checkmark
	CO-3		√			√
	CO-4	\checkmark	✓			
	CO-5		✓			
	CO-1	\checkmark	√			
Image Processing	CO-2		√			
using Java Lab	CO-3		✓			
	CO-4	√	✓	✓	✓	✓
	CO-5	\checkmark	√	✓	 ✓ 	\checkmark
	CO-1	\checkmark				
Object Oriented	CO-2	\checkmark				
Analysis and Design	CO-3		√		✓	
	CO-4	√	√		✓	\checkmark
	CO-5	\checkmark	√	✓	✓	
	CO-1	\checkmark				
Data Warehousing and	CO-2	√				\checkmark
Data Mining	CO-3			✓		√
	CO-4	√	✓	√	✓	√
	CO-5	√	✓	√	✓	\checkmark

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
	CO-1					
Artificial Neural	CO-2	✓				✓
Networks	CO-3	✓		✓	✓	✓
	CO-4	✓	\checkmark	✓	✓	✓
	CO-5	✓	✓	√	✓	✓
	CO-1					
Distributed Database	CO-2	✓				
	CO-3	✓			✓	
	CO-4	✓			✓	✓
	CO-5	✓	\checkmark	✓		✓
	CO-1	✓	\checkmark			
Mini Project	CO-2		\checkmark			
winn i roject	CO-3		\checkmark			
	CO-4	✓	\checkmark	✓	✓	✓
	CO-5	✓	\checkmark	✓	✓	✓
	CO-1	✓	\checkmark			
Project work	CO-2		√			
I I UJUU WUIK	CO-3		\checkmark			
	CO-4	✓	√	√	✓	✓
	CO-5	✓	✓	✓	✓	✓

M. SC CST

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	CO-1	✓			✓	
	CO-2	· · · · · · · · · · · · · · · · · · ·			· ·	
Fundamentals of	<u>CO-2</u> CO-3	· •			· ·	
Digital Computers	<u>CO-4</u>	· ✓	✓		· · · · · · · · · · · · · · · · · · ·	✓
-	<u> </u>	✓ ✓	✓ ✓		•	
	<u> </u>	 ✓ 	•	•		•
-	<u>CO-1</u> CO-2	✓ ✓	✓			
		◆ ✓	▲ ▲			
Digital Lab	<u>CO-3</u>	•	•			/
-	<u>CO-4</u>		✓	✓	 ✓ 	
	CO-5		✓	✓	 ✓ 	✓
-	CO-1	√			 ✓ 	
Internet and its	CO-2	✓			✓	
Applications	CO-3	✓				
	CO-4	✓	✓			
	CO-5	✓	✓	✓		✓
	CO-1	✓			✓	
	CO-2	✓	✓		✓	
Microprocessors	CO-3	✓	✓			
-	CO-4	√				
-	CO-5	✓		✓		\checkmark
	CO-1				✓	
	CO-2	✓	✓		✓	
Programming in	CO-3	✓	✓			
C and C++	CO-4	✓	✓		✓	
-	CO-5	✓	✓	✓	✓	✓
C Programming	CO-1	✓				
and	CO-2	✓	✓			
Microprocessors	CO-3	✓	✓			
Lab	CO-4		✓	✓	✓	✓
-	CO-5		✓	✓	✓	✓
	CO-1		✓		✓	
-	CO-2	✓	✓		✓	
Operating	CO-3	✓	✓ ✓		+	
Systems	CO-4	✓ ·			✓	✓
-	CO-4	· ✓		✓	· · · · · · · · · · · · · · · · · · ·	 ✓
	0.0-3	•			•	•

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

1 <th>Course</th> <th>Course</th> <th>PSO-1</th> <th>PSO-2</th> <th>PSO-3</th> <th>PSO-4</th> <th>PSO-5</th>	Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
RDBMS with visual programming Lab. \bigcirc	Subject Code						
RDBMS with visual programming Lab. CO-3 \cdot \cdot CO-3 \cdot \cdot \cdot \cdot CO-4 \cdot \cdot \cdot \cdot CO-5 \cdot \cdot \cdot \cdot Multimedia Systems CO-1 \cdot \cdot \cdot CO-1 \cdot \cdot \cdot \cdot CO-2 \cdot \cdot \cdot \cdot CO-1 \cdot \cdot \cdot \cdot CO-5 \cdot \cdot \cdot \cdot CO-1 \cdot \cdot \cdot \cdot CO-1 \cdot \cdot \cdot \cdot CO-1 \cdot \cdot \cdot \cdot Information Security $CO-1$ \cdot \cdot \cdot \cdot CO-1 \cdot \cdot \cdot \cdot \cdot \cdot Information Security $CO-1$ \cdot \cdot \cdot \cdot \cdot			•				
programming Lab. $1 \\ CO-3 \\ CO-5 \\ V \\ CO-5 \\ V \\ V \\ V \\ V \\ CO-5 \\ V \\ V \\ V \\ V \\ CO-5 \\ V \\ V \\ V \\ V \\ CO-5 \\ V \\ V \\ V \\ V \\ V \\ V \\ CO-5 \\ V \\ $	RDBMS with visual			•			
CO-5 \checkmark </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
CO-1 Image: CO-1 <th< td=""><td></td><td></td><td></td><td>•</td><td></td><td></td><td>✓ ✓</td></th<>				•			✓ ✓
Multimedia Systems \bigcirc \checkmark \neg \neg \neg Multimedia Systems \bigcirc \bigcirc \checkmark \checkmark \neg \neg \bigcirc \bigcirc \checkmark \checkmark \checkmark \checkmark \checkmark \bigcirc \bigcirc \bigcirc \checkmark \checkmark \checkmark \checkmark \bigcirc \bigcirc \bigcirc \bigcirc \checkmark \checkmark \checkmark \checkmark \square \bigcirc \bigcirc \bigcirc \checkmark \square <t< td=""><td></td><td></td><td>•</td><td>V</td><td>•</td><td>•</td><td>V</td></t<>			•	V	•	•	V
Multimedia Systems $\bigcirc \bigcirc $							
Multilitudia bystella CO-3 \checkmark							
CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Software Engineering CO-1 \sim \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Information Security CO-1 \sim \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Computer Organization CO-1 \sim \checkmark </td <td>Multimedia Systems</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>	Multimedia Systems						1
Software Engineering CO-1 Image: Market Ma							✓
Software Engineering $CO-2$ \checkmark \checkmark \checkmark Software Engineering $CO-3$ \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Information Security CO-1 $ -$ CO-1 $CO-2$ \checkmark \checkmark \checkmark \checkmark \checkmark Information Security CO-1 $ -$ <td< td=""><td></td><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></td<>			✓	✓	✓	✓	
Software Engineering \bigcirc \checkmark							
CO-4 \checkmark </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
CO-5 \checkmark </td <td>Software Engineering</td> <td></td> <td></td> <td>•</td> <td></td> <td> ✓ </td> <td></td>	Software Engineering			•		 ✓ 	
Information Security CO-1 Image: CO-2				✓			\checkmark
Information Security \bigcirc \checkmark			✓	✓	✓		✓
Information Security \bigcirc \checkmark							
CO-4 \checkmark </td <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td>			✓				
CO-5 Image: Marking the second	Information Security	CO-3	\checkmark			✓	\checkmark
Computer Organization And Architecture CO-1 Image: CO-2 Image: CO-3 I		CO-4	~	~	~	✓	\checkmark
Computer Organization And Architecture CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark \checkmark Web Technologies CO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark \checkmark \checkmark Web Technologies CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark \checkmark Web Application Lab CO-1 \checkmark \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Web Application Lab CO-3 \checkmark \checkmark \checkmark \checkmark \checkmark Course Course PSO-1 PSO-2 PSO-3 PSO-4 PSO-4		CO-5	~	\checkmark	✓		\checkmark
Computer Organization And Architecture $\bigcirc \bigcirc $		CO-1					
And Architecture $1 \\ CO-3$ $1 \\ \checkmark$		CO-2	✓				
CO-4 \checkmark <th< td=""><td></td><td>CO-3</td><td>✓</td><td></td><td></td><td>✓</td><td></td></th<>		CO-3	✓			✓	
Web TechnologiesCO-1Image: Co-1 $CO-2$ \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark $CO-4$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-1$ \checkmark \checkmark $CO-2$ \checkmark \checkmark $CO-3$ \checkmark \checkmark $CO-4$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-2$ \checkmark \checkmark $CO-3$ \checkmark \checkmark $CO-4$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $CO-5$ \checkmark \checkmark $Course$ $Course$ $PSO-2$ $PSO-3$ $PSO-4$ $PSO-4$	And Arcintecture	CO-4	✓	✓		✓	√
Web Technologies $CO-2$ \checkmark \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-5$ \checkmark \checkmark \checkmark \checkmark \checkmark $Veb Application Lab$ $CO-1$ \checkmark \checkmark \checkmark \checkmark $CO-2$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-3$ \checkmark \checkmark \checkmark \checkmark \checkmark $CO-4$ \checkmark \checkmark \checkmark \checkmark \checkmark $Course$ $Course$ $PSO-2$ $PSO-3$ $PSO-4$ PSO		CO-5	✓	✓	✓	✓	√
Web Technologies $\bigcirc O 2$ \checkmark \checkmark \checkmark $\bigcirc O -3$ \checkmark \checkmark \checkmark \checkmark $\bigcirc O -4$ \checkmark \checkmark \checkmark \checkmark $\bigcirc O -5$ \checkmark \checkmark \checkmark \checkmark $\bigcirc O -5$ \checkmark \checkmark \checkmark \checkmark $\bigcirc O -5$ \checkmark \checkmark \checkmark \checkmark $\bigcirc O -2$ \checkmark \checkmark \checkmark $\bigcirc O -2$ \checkmark \checkmark \checkmark $\bigcirc O -3$ \checkmark \checkmark \checkmark $\bigcirc O -4$ \checkmark \checkmark \checkmark $\bigcirc O -5$ \bigcirc \checkmark \checkmark \bigcirc \bigcirc \checkmark \bigcirc \bigcirc \checkmark \bigcirc \bigcirc \checkmark \bigcirc \bigcirc \checkmark \bigcirc \checkmark \checkmark \bigcirc \checkmark \checkmark \bigcirc \checkmark \checkmark \bigcirc \bigcirc \checkmark \bigcirc \bigcirc \checkmark \bigcirc \checkmark \checkmark \bigcirc \checkmark \checkmark \bigcirc \checkmark \checkmark \checkmark \checkmark \checkmark \bigcirc		CO-1					
CO-4Image: square definition of the square de		CO-2	✓	√			
CO-5 \checkmark \checkmark \checkmark \checkmark CO-1 \checkmark \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark CO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark CourseCoursePSO-1PSO-2PSO-3PSO-4PSO-3	Web Technologies	CO-3	✓	√			
CO-1 \checkmark \checkmark \checkmark Web Application LabCO-2 \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark CourseCoursePSO-1PSO-2PSO-3PSO-4PSO-3		CO-4	✓	√			
Web Application Lab $\bigcirc \bigcirc $		CO-5	✓	✓	✓	✓	✓
Web Application LabCO-2 \checkmark \checkmark \checkmark CO-3 \checkmark \checkmark \checkmark \checkmark CO-4 \checkmark \checkmark \checkmark \checkmark CO-5 \checkmark \checkmark \checkmark \checkmark CourseCoursePSO-1PSO-2PSO-3PSO-4		CO-1	✓	✓			
Web Application Lab CO-3 ✓ ✓ ✓ CO-4 ✓ <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td>				✓			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Web Application Lab			✓			
CO-5Image: CourseImage: Course </td <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td>			✓	✓	✓	✓	✓
Course Course PSO-1 PSO-2 PSO-3 PSO-4 PS			✓	✓	✓	 ✓ 	✓
		Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Systems Software CO-1	-						

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

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

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	Outcome	100-1	150-2	150-5	150-4	150-5
	CO-1					
Software	CO-2	\checkmark	✓			
Testing -	CO-3	\checkmark	✓	✓		
resung	CO-4	\checkmark	✓	✓	✓	√
	CO-5	√	✓	✓	✓	✓
Dete	CO-1					
Data Warahawaing	CO-2	\checkmark				\checkmark
Warehousing and Data	CO-3	\checkmark		✓		\checkmark
Mining	CO-4	√	✓	√	✓	\checkmark
winning	CO-5	\checkmark	✓	✓	✓	\checkmark
	CO-1	\checkmark	✓			
Network	CO-2		✓			
Programming	CO-3		✓			
Lab	CO-4	\checkmark	✓	✓	✓	\checkmark
	CO-5	\checkmark	✓	√	✓	\checkmark
	CO-1					
Windows	CO-2	\checkmark				
	CO-3	\checkmark				
Programming -	CO-4	\checkmark	✓	✓		\checkmark
	CO-5	√	✓	✓	✓	
	CO-1					
	CO-2	\checkmark				
Distributed	CO-3	✓				\checkmark
Computing	CO-4	✓	✓		✓	\checkmark
	CO-5	✓	✓	✓	✓	✓
	CO-1	√	✓			
	CO-2		✓			
Project	CO-3		✓			
	CO-4	✓	✓	✓	✓	\checkmark
	CO-5	\checkmark	✓	✓	✓	\checkmark

DEPARTMENT OF COMPUTER APPLICATIONS

BCA

	Course	PSO1	PSO2	PSO3	PSO4	PSO5
itle of the Course	Outcome			••		
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						
	C01	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			

Microprocessor & its						
Applications						
	C01			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						
LAD	CO1	ü				
	CO2	ü				
	CO3	u	ü			
	CO4		ü			
	C05		ü			
	CO6		ü			
	CO7		ü			ü
UNIX PROGRAMMING						
	CO1	ü				
	CO2		ü			
	CO3	ü	ü			
	CO4	ü				
	CO5	ü	ü			
VISUAL PROGRAMMING						
	C01	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		1	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	1			
	CO2		ü			
	CO3		ü			
	CO4	ü	ü			
	CO5		ü			
Software Engineering						
	CO1			ü		ü
	CO2				ü	
	CO3				ü	
	CO4				ü	
	CO5			ü		
Web Technology						
web reemology	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		1	ü		

	CO4			ü		
	CO5			ü		
Data Mining						
	CO1			ü		
	CO2			ü	ü	
	CO3			ü		
	CO4				ü	
	CO5				ü	
Digital Image Processing						
	CO1		1	ü		
	CO2				ü	
	CO3		1		ü	
	CO4			ü		
	CO5				ü	
Object Oriented Analysis and Design						
	C01			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
	CO-1	✓		\checkmark	✓	
General Microbiology and	CO-2	✓	✓	√	✓	
Microbial Physiology	CO-3	✓	✓	✓	√	
UMYM11C	CO-4	✓	✓	\checkmark		
	CO-5	✓		\checkmark	✓	
~	CO-1		✓	✓	✓	✓
General Microbiology and	CO-2		✓	√	✓	✓
Microbial Physiology	CO-3		✓	✓		✓
(Practical)	CO-4		✓	✓	✓	
UMYL11A	CO-5		✓	✓		
	<u>CO-1</u>	✓		✓	✓	
Allied Biochemistry I	<u>CO-2</u>	✓		✓	✓	
UBYA11C	<u>CO-2</u>	✓ ✓			· •	
	<u> </u>	· ✓			· •	
	<u> </u>	· ✓		~	· ✓	
	<u>CO-1</u> CO-2	· ✓		· ·	· ✓	
Cellular Organization	<u> </u>	✓ ✓		•	✓ ✓	
NMMY11C	<u> </u>	✓ ✓			✓ ✓	
	<u> </u>	✓ ✓			▼ ✓	
		▼ ▼		✓	▼ ✓	
	<u>CO-1</u>	▼ ✓		◆ ✓	▼ ✓	
Immunology	<u>CO-2</u>			✓		
UMYM21C	<u>CO-3</u>	 ✓ 			√	
	<u>CO-4</u>	 ✓ 	 ✓ 	1	✓	√
	CO-5	✓	 ✓ 	✓	√	✓
	CO-1		 ✓ 	√	✓	✓
Immunology	CO-2		✓	✓	✓	
UMYL21C	CO-3		✓	✓	✓	
	CO-4		✓	✓	✓	
	CO-5		✓		✓	
	CO-1	✓			✓	
Allied Biochemistry II	CO-2	✓		✓	✓	
UBYA21C	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-1		✓			✓
Allied Biochemistry I and	CO-2		✓	✓		✓
II UBYY21C	CO-3	1	✓			
	CO-4		✓			✓
	CO-1	✓			✓	
	<u>CO-2</u>	✓			✓	1
Diversity of Life Forms	CO-3	✓			✓	
NMMY21C	<u> </u>	 ✓			· ·	
	<u> </u>	 ✓			· •	
Molecular Biology	<u> </u>	· ✓		✓	· •	
UMYM31C	CO-1 CO-2	✓ ✓		 ✓	· ✓	

	CO-3	✓		✓	✓	
	<u> </u>	✓		✓	✓	1
	CO-5	✓		✓	✓	1
	CO-1		✓	✓		
	CO-2		✓	✓		✓
Molecular Biology	CO-3		✓	✓		
UMYL31C	CO-4		✓	✓		
	CO-5		✓	✓		
	CO-1	✓	✓	√		✓
D	CO-2	✓	✓		✓	✓
Bioinstrumentation	CO-3	✓	✓	✓		✓
UMYA31B	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓		✓
	CO-1		✓	✓	✓	
D	CO-2		✓	√		✓
Bioinstrumentation	CO-3	1	✓	✓		
UMYY41B	CO-4	1	✓	✓	✓	✓
	CO-5		✓	✓	✓	✓
	CO-1	✓	✓	✓		✓
Soil and Agricultural	CO-2	✓		√	✓	
Microbiology	CO-3	✓		√	✓	
UMYM41A	CO-4	✓			✓	
	CO-5	✓			✓	✓
	CO-1		✓	✓		✓
Soil and Agricultural	CO-2		✓	✓		
Microbiology	CO-3		✓	✓		
UMYL42A	CO-4		✓	✓	✓	
	CO-5		✓	√	✓	
	CO-1	✓		√	✓	
D	CO-2	✓		✓	✓	
Biostatistics	CO-3	✓		✓	✓	
UMSA43A	CO-4	✓	1	✓	✓	✓
	CO-5	✓		✓	✓	
	CO-1	1	✓	✓		
	CO-2	1	✓	✓		
Biostatistics	CO-3	1	✓	✓	✓	
UMSY43A	CO-4	1	✓	✓	✓	✓
	CO-5	1	✓	✓		✓
	CO-1	✓	✓	✓		✓
MallalDertert	CO-2	✓	✓	✓		✓
Medical Bacteriology	CO-3	✓	1	✓	✓	
UMYM51C	CO-4	✓		✓	✓	
	CO-5	✓	1	✓	✓	
	CO-1	✓	✓	✓	✓	
Medical Mycology And	CO-2	✓	✓	✓	✓	
Parasitology	CO-3	✓	✓	✓	✓	✓
UMYM52A	CO-4	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Medical Virology	CO-1	✓	✓	✓	✓	

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

M.SC APPLIED MICROBIOLOGY

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
	CO-1	✓	✓	✓	✓	√
General Microbiology	CO-2	✓	✓			
and Laboratory Animal	CO-3	✓		✓		
Science (PMYM11C)	CO-4	✓	✓	✓		\checkmark
	CO-5	✓	✓			\checkmark
	CO-1	✓		✓		
Immunology and	CO-2	✓	✓	✓		
Immunotechnology	CO-3	✓	✓			\checkmark
(PMYM12C)	CO-4	✓	✓	✓		
	CO-5	✓				
	CO-1	✓		✓		
Microbial Taxonomy	CO-2	✓				
(PMYM13C)	CO-3	✓			✓	
(PMTMI3C)	CO-4	✓		✓		
	CO-5	✓		✓		
	CO-1		✓	✓		
	CO-2		✓			
General Microbiology,	CO-3		✓	√	✓	
Physiology and Immunology and Immunotechnolgy (PMYL11C)	CO-4		✓	✓		✓
	CO-5		✓	✓		
	CO-6		✓			
	CO-7		✓		✓	✓
	CO-8		✓	✓		
	CO-1	✓		✓	✓	
	CO-2	✓				
Metabolic Pathways	CO-3	✓		✓	✓	
(PMYA11C)	CO-4	✓		✓	✓	
	CO-5	✓		✓		
	CO-1	✓		✓	✓	
,	CO-2	✓		✓		
Microbial Diversity	CO-3	✓		✓	✓	
(PMYA12C)	CO-4	✓				
	CO-5	✓				
	CO-1	✓	✓	✓	✓	✓
	CO-2	✓	· · · ·	✓	 ✓ 	`
Virology (PMYM21C)	CO-3	 ✓		· ✓		
	CO-4	 ✓			✓	
	CO-4 CO-5	· ·	✓	✓		
	CO-3 CO-1	✓ ✓	-	· ·		
Systematic Medical	CO-1 CO-2	· ✓	✓			
Bacteriology	CO-2 CO-3	✓ ✓	✓ ✓		✓	
(PMYM22C)	CO-4	✓ ✓	✓ ✓		· · · · · · · · · · · · · · · · · · ·	
	CO-4 CO-5	✓ ✓	✓ ✓		•	
	CO-5 CO-1	▼ ✓	*			•
	CO-1 CO-2	▼ ✓		✓		

Mycology and	CO-3	✓	✓	✓		
Parasitology	<u> </u>	· ·	· •	, ,		
(PMYM23C)	<u>CO-4</u>	· ·	· •	· ✓		
(11111111111111111111111111111111111111	<u> </u>	-	· ·	· ✓		✓
Systematic Bacteriology,	<u>CO-1</u> CO-2		· •	· •		
Mycology, Parasitology	<u>CO-2</u> CO-3		· ·	· ✓		•
and Virology	<u> </u>		· ·	· ✓		√
(PMYL21C)	<u>CO-4</u> CO-5		· ·	· ✓		•
	<u> </u>		· ·	, ,		
	<u>CO-0</u> CO-1	✓	•	•	\checkmark	
	CO-1 CO-2	· · · · · · · · · · · · · · · · · · ·		✓	•	✓
Bioinformatics and	<u>CO-2</u> CO-3	· ·		· ✓		•
Biostatistics (PMYA21C)	<u> </u>	· ·	 ✓ 	✓ ✓		
	<u>CO-4</u> CO-5	✓ ✓	✓ ✓	✓ ✓		
	<u> </u>	✓ ✓	✓ ✓	•	 ✓ 	
Industrial and	<u>CO-1</u> CO-2	✓ ✓	•	✓	•	
Pharmaceutical	<u>CO-2</u> CO-3	▼ ▼		▼ ✓		
Microbiology		▼ ▼		•		
(PMYA22C)	<u>CO-4</u>		✓	v		✓
	<u>CO-5</u>	\checkmark	•			v
Microbial Genetics	<u>CO-1</u>					
	<u>CO-2</u>	 ✓ 			✓ ✓	
(PMYM31C)	<u>CO-3</u>	 ✓ 		✓ ✓	✓	
``````	<u>CO-4</u>	<ul> <li>✓</li> </ul>	✓	✓		
	<u>CO-5</u>	✓			✓	
-	<u>CO-1</u>	<ul> <li>✓</li> </ul>				
Genetic Engineering	<u>CO-2</u>	<ul> <li>✓</li> </ul>			<ul> <li>✓</li> </ul>	
(PMYM32C)	<u>CO-3</u>	<ul> <li>✓</li> </ul>			✓	
	<u>CO-4</u>	<ul> <li>✓</li> </ul>	✓	<ul> <li>✓</li> </ul>		
	CO-5	<ul> <li>✓</li> </ul>		<b>√</b>		√
-	CO-1	<ul> <li>✓</li> </ul>		✓	<b>√</b>	
Molecular Biology	CO-2	<ul> <li>✓</li> </ul>			<ul> <li>✓</li> </ul>	
(PMYM33C)	CO-3	✓			✓	
(111111000)	<b>CO-4</b>	<ul> <li>✓</li> </ul>				
	CO-5	✓			✓	
	CO-1	✓				
Soil and Agricultural	CO-2	✓		√		
Microbiology	CO-3	✓				
(PMYA31A)	<b>CO-4</b>	✓	✓	✓	✓	$\checkmark$
	CO-5	✓		✓		
Microbial Genetics,	CO-1		✓	✓		
Molecular Biology and	CO-2		✓	✓		
Genetic Engineering	CO-3		✓	✓		
(PMYL41A)	<b>CO-4</b>	✓	✓	✓		
	CO-5	✓	✓	√	$\checkmark$	$\checkmark$
	CO-1	✓		✓		
Environmental	CO-2	✓		✓		$\checkmark$
Biotechnology	CO-3	✓		✓	✓	$\checkmark$
(PMYE31A	<b>CO-4</b>	✓		✓	✓	
F	CO-5	✓				

	CO-1	✓	✓			✓
Food, Dairy and Environmental	CO-2	✓	✓	✓		✓
	CO-3	✓		✓	✓	
Microbiology (PMYM41A)	<b>CO-4</b>	✓				
$(\mathbf{I} \mathbf{W} \mathbf{I} \mathbf{W} \mathbf{H} \mathbf{A})$	CO-5	✓		✓		
	CO-1	✓				
Research Methodology	<b>CO-2</b>	✓		~		
and Bioinstrumentation	CO-3	✓	✓	~	✓	
(PMYA41C)	<b>CO-4</b>	✓		~	✓	✓
	<b>CO-5</b>	✓		~	✓	
	CO-1		✓	✓		~
Soil, Agricultural, Food	CO-2		✓	√		~
and Environmental	CO-3		✓	✓		
Microbiology	<b>CO-4</b>		✓	✓		$\checkmark$
(PMYL42A)	CO-5		$\checkmark$	√		
	<b>CO-6</b>		✓			

### **DEPARTMENT OF BIOTECHNOLOGY**

#### **B.SC BIOTECHNOLOGY**

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome					
Cell Biology	<b>CO-1</b>	✓	✓	✓	✓	
UBTM11D	<b>CO-2</b>	$\checkmark$		✓	✓	
	CO-3	$\checkmark$		✓	✓	$\checkmark$
	<b>CO-4</b>	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Allied	CO-1	✓		✓		
Microbiology	CO-2	✓		✓		
UMYA11D	CO-3	✓		✓		
	<b>CO-4</b>	✓		✓		
	CO-5	$\checkmark$		✓		$\checkmark$
Plant	CO-1	✓		✓	<ul> <li>✓</li> </ul>	
Physiology	CO-2	$\checkmark$		✓	<ul> <li>✓</li> </ul>	
NMBT11D	CO-3	✓			<ul> <li>✓</li> </ul>	
	<b>CO-4</b>	✓			✓	
-	CO-5	✓		✓	<ul> <li>✓</li> </ul>	✓
Animal	CO-1	✓			<ul> <li>✓</li> </ul>	
Physiology	CO-2	✓		✓	<ul> <li>✓</li> </ul>	
	CO-3	✓			<ul> <li>✓</li> </ul>	
-	CO-4	✓			✓	
	CO-5	✓		✓	✓	✓
Practical 1	CO-1		✓	✓		✓
UBTL11C	CO-2		✓	✓		✓
Developmental	CO-1	✓	✓	✓	<ul> <li>✓</li> </ul>	
Biology and	CO-2	✓		✓	✓	
Genetics	CO-3	✓			✓	
UBTM21D	CO-4	✓			✓	
	<u>CO-5</u>	✓			<ul> <li>✓</li> </ul>	✓
Allied	<u> </u>	✓				
Chemistry	CO-2	✓				
UCYA22D	<u> </u>	✓				
	<u> </u>	✓				
	<u> </u>	✓				✓
Basics of	<u> </u>	✓ ·		✓	✓	
Ecology	CO-2	 ✓		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
NMBT21C	<u> </u>	 ✓		-		
	<u> </u>	 ✓			· · · · · · · · · · · · · · · · · · ·	
	<u>CO-4</u>	 ✓		✓	· · · · · · · · · · · · · · · · · · ·	✓
	00-5		1	•	•	*

Evolution	CO-1	✓			✓	
	CO-2	✓		✓	<ul> <li>✓</li> </ul>	
	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓		✓	✓	✓
Practical 2	CO-1		✓	✓		✓
UBTL21D	CO-2		✓	✓		✓
Immunology	CO-1	✓		✓	✓	
UBTM31D	<b>CO-2</b>	✓	✓	✓	✓	
	CO-3	✓		✓	✓	
	<b>CO-4</b>	✓			✓	
	CO-5	✓			<ul> <li>✓</li> </ul>	$\checkmark$
Allied	CO-1	✓		✓	✓	
Biochemistry	<b>CO-2</b>	✓		✓	✓	
UBYA31D	CO-3	✓		✓	✓	
	<b>CO-4</b>	✓		✓	✓	
	CO-5	✓		✓	✓	✓
Practical 3	CO-1		✓			
	CO-2		✓			
Animal and	CO-1	✓	✓	✓	✓	✓
medical	CO-2	✓		✓	✓	✓
Biotechnology	CO-3	✓	✓	✓	✓	$\checkmark$
	<b>CO-4</b>	✓		✓	✓	
	CO-5	✓	✓	✓	✓	$\checkmark$
Biophysics	CO-1	✓				
and	<b>CO-2</b>	✓				
Biostatistics	CO-3	✓		✓		
	<b>CO-4</b>	✓		✓		
	CO-5	✓		✓		
Practical 4	CO-1		✓			$\checkmark$
	CO-2		✓			$\checkmark$

Plant	CO-1	✓				
Biotechnology	CO-2	✓		✓		✓
	CO-3	✓	✓	✓		✓
	<b>CO-4</b>	✓		✓		✓
	CO-5	✓	✓	✓		✓
Environmental	CO-1	✓		✓		
Biotechnology	CO-2	√		✓		
	CO-3	√				
	<b>CO-4</b>	✓				
	CO-5	✓		✓		✓
<b>Bioinformatics</b>	CO-1	✓			✓	
	CO-2	✓		✓	✓	
	CO-3	✓				
	<b>CO-4</b>	✓	✓			
	CO-5	✓		✓	✓	✓
Methods in	CO-1	✓	✓	✓	✓	✓
Biology	CO-2	✓	✓	✓	✓	✓
	CO-3	✓	✓	✓	✓	✓
	<b>CO-4</b>	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Practical 5	CO-1					
	<b>CO-2</b>					
Genetic	CO-1	✓	✓	✓	$\checkmark$	$\checkmark$
engineering	<b>CO-2</b>	✓		✓	$\checkmark$	$\checkmark$
	<b>CO-3</b>	✓	✓	$\checkmark$	$\checkmark$	
	<b>CO-4</b>	✓		✓	$\checkmark$	$\checkmark$
	CO-5	✓	✓	✓	$\checkmark$	$\checkmark$
Industrial	CO-1	✓	✓	✓	$\checkmark$	
Biotechnology	CO-2	✓	✓	✓	$\checkmark$	$\checkmark$
	<b>CO-3</b>	✓	✓	✓	$\checkmark$	$\checkmark$
	<b>CO-4</b>	✓	✓	✓	$\checkmark$	
	CO-5	✓	✓	$\checkmark$	$\checkmark$	$\checkmark$
Microbial	CO-1	✓				
Biotechnology	CO-2	✓		$\checkmark$		$\checkmark$
	CO-3	✓				
	<b>CO-4</b>	✓		✓		✓
	CO-5	$\checkmark$		✓		$\checkmark$

Environmental	CO-1	✓		✓	
Biotechnology	CO-2	✓			
	CO-3	✓		✓	✓
	<b>CO-4</b>	✓		✓	√
	CO-5	✓		✓	√
Practical 6	CO-1		✓		√
	CO-2		$\checkmark$		$\checkmark$

## M. SC BIOTECHNOLOGY

Course Subject Code	Course outcome	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Biochemistry	CO-1	✓	✓	✓	<ul> <li>✓</li> </ul>	✓
PBTM11D	CO-2	✓	✓		✓	✓
	CO-3	✓		✓	✓	$\checkmark$
	CO-4	✓		✓	✓	√
	CO-5	✓	✓	✓	✓	√
Cell and	CO-1	✓	✓	✓	✓	√
Developmental	CO-2	✓		✓	✓	
biology	CO-3	✓		✓	✓	
PBTM12D	CO-4	✓			✓	√
	CO-5	✓			✓	
Molecular	CO-1	✓			✓	
genetics	CO-2	✓		✓	✓	√
PBTM13D	CO-3	✓	✓		✓	
	<b>CO-4</b>	✓	✓	✓	✓	√
	CO-5	✓		✓	✓	√
Practical 1	CO-1		✓	✓		✓
PBTL11D	CO-2		✓	✓		✓
	CO-3		✓	✓		✓
Elective	CO-1	✓			✓	
Environmental	CO-2	✓		✓	✓	✓
Biotechnology	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓	✓	✓
Elective	CO-1	✓		✓		
<b>Biostatistics</b>	CO-2	✓		✓		
PMSA12D	CO-3	✓		✓		
	CO-4	✓		✓		
	CO-5	✓		✓		
Ecology and	CO-1	✓			✓	
Evolution	CO-2	✓		✓	✓	
PBTA11D	CO-3	✓			✓	
	CO-4	✓			✓	
	CO-5	✓		✓	✓	√

Microbiology	CO-1	✓	✓		$\checkmark$	
&Bioprocess	CO-2	✓	✓	✓	$\checkmark$	
Technology	CO-3	✓	✓	✓	$\checkmark$	✓
PBTM21D	<b>CO-4</b>	✓	✓	✓	$\checkmark$	✓
	CO-5	✓	✓	✓	✓	✓

	<u>CO 1</u>		<ul> <li>✓</li> </ul>			
Immunology	<u>CO-1</u>	<b>√</b>	•	$\checkmark$		
PBTM22D	<u>CO-2</u>	<b>√</b>				/
-	<b>CO-3</b>	<u> </u>	✓	✓ ✓	✓	✓
	<b>CO-4</b>	✓		✓	✓	
	CO-5	<u>√</u>	✓	✓	<b>√</b>	✓
Genetic	CO-1	<u>√</u>			<ul> <li>✓</li> </ul>	
Engineering	CO-2	✓	✓	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
PBTM23D	CO-3	✓	✓	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
	CO-4	✓	✓	<ul> <li>✓</li> </ul>	✓	<b>√</b>
	CO-5	✓	✓	✓	✓	<b>√</b>
Practical 2	CO-1		✓	✓		✓
PBTL21D	CO-2		✓	✓		✓
	CO-3		✓	✓		✓
Intellectual	CO-1	✓		✓	✓	
Property Rights&	CO-2	✓		✓		
Biosafety	CO-3	✓		✓		✓
PBTA21D	<b>CO-4</b>	✓		✓		
	CO-5	✓		✓	✓	$\checkmark$
Methods in	CO-1	✓		✓	✓	$\checkmark$
Biology	CO-2	$\checkmark$	✓	✓	✓	$\checkmark$
	CO-3	$\checkmark$		✓	✓	$\checkmark$
	<b>CO-4</b>	$\checkmark$		✓	✓	$\checkmark$
	CO-5	√	✓	✓	✓	$\checkmark$
Plant Physiology	CO-1	$\checkmark$		✓	✓	$\checkmark$
PBTE21D	CO-2	$\checkmark$		✓	✓	$\checkmark$
	CO-3	√		✓	✓	$\checkmark$
	<b>CO-4</b>	√		✓	✓	$\checkmark$
	CO-5	✓		✓	✓	✓
Plant and Animal	CO-1	✓	✓			
Biotechnology	CO-2	✓		✓	✓	
PBTM31D	CO-3	✓	✓			
	<b>CO-4</b>	✓				
	CO-5	√		✓	✓	$\checkmark$
Bioinformatics	CO-1	✓		✓	✓	
PBTM32D	CO-2	✓	✓	✓	✓	
	CO-3	✓				
-	CO-4	✓				
	CO-5	✓				✓
Molecular	CO-1	✓	✓	✓	✓	✓
Biology	CO-2	✓		✓	✓	✓
PBTM33D	CO-3	✓		✓	✓	✓
	CO-4	✓		✓	✓	✓
	CO-5	✓		✓ <b>√</b>	✓	✓
Practical 3	CO-5		✓	✓ <b>√</b>		✓ ·
	CO-1 CO-2		· · ·	· · ·		 ✓
	CO-2 CO-3		· · ·	· · ·		 ✓
Nano-	CO-3	✓		· · ·		
Biotechnology	CO-1 CO-2	· · · · · · · · · · · · · · · · · · ·		· · ·		
PBTA31D	CO-2 CO-3	· · · · · · · · · · · · · · · · · · ·		· ·		
	00-3	•		•		

	<b>CO-4</b>	✓		✓		
	CO-5	✓		✓		✓
Virology	CO-1	✓		1	✓	
	CO-2	✓	✓	✓	✓	✓
-	CO-3	✓	✓	✓	✓	✓
	<b>CO-4</b>	✓	✓	✓	✓	✓
	CO-5	✓	✓	✓	✓	✓
Animal	CO-1	✓			<ul> <li>✓</li> </ul>	
Physiology	CO-2	✓		✓	<ul> <li>✓</li> </ul>	
PBTE31D	CO-3	✓			<ul> <li>✓</li> </ul>	
	<b>CO-4</b>	✓			<ul> <li>✓</li> </ul>	
	CO-5	✓		✓	<ul> <li>✓</li> </ul>	✓
Stem Cell Biology	CO-1	✓		✓	<ul> <li>✓</li> </ul>	✓
	CO-2	✓		✓	✓	$\checkmark$
	CO-3	✓		✓	✓	$\checkmark$
	<b>CO-4</b>	✓		✓	✓	$\checkmark$
	<b>CO-5</b>	✓		✓	✓	$\checkmark$
Research	CO-1	✓		✓	✓	
Methodology	CO-2	✓		✓	✓	$\checkmark$
	CO-3	✓		✓	✓	$\checkmark$
	<b>CO-4</b>	✓		✓	✓	$\checkmark$
	CO-5	✓		✓	✓	✓
Marine	CO-1	✓		✓		
Biotechnology	CO-2	✓		✓		
	CO-3	✓		✓		
	<b>CO-4</b>	✓	✓	✓		
	CO-5	✓	✓	✓	✓	✓

#### **DEPARTMENT OF COMMERCE**

## B. COM

Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
		190-1	F 50-2	r50-3	150-4	130-5
Subject Code Financial	outcome	✓				
	CO-1 CO-2	 ✓				
accounting-1 UCMM11A	0-2	v				
UCIVIIVIIIA	CO-3	✓			✓	$\checkmark$
	CO-4	✓				
	CO-5	✓				
Business	CO-1	✓			✓	✓
communication	CO-2	√				
UCMM12B	CO-3	✓				
	CO-4	✓				
	CO-5	✓			✓	✓
Business	CO-3 CO-1	 ✓		✓	▼ ✓	•
		 ✓		<b>v</b>	•	
Economics(allied) UCMA11A	CO-2	✓ ✓				
UCMAIIA	CO-3					
	<u>CO-4</u>	<u>√</u>		<b>√</b>	✓ ✓	
	CO-5	✓		<ul> <li>✓</li> </ul>	✓	
Advanced	CO-1	<b>√</b>		✓		
Financial	CO-2	✓				$\checkmark$
Accounting	CO-3	$\checkmark$			✓	
UCMM21A						
Principles of	CO-1	✓				✓
management	CO-2	$\checkmark$				
UCMM22A	CO-3	✓		✓		
	CO-4	✓			✓	
	CO-5	✓				✓
Indian	CO-1	✓				
Economy(allied)	CO-2	 ✓		✓		
UCMA21A	CO-2 CO-3	· ✓		· ·	+ +	
	CO-4	 ✓		•	✓	
	CO-4 CO-5	✓ ✓		✓	• • • • • • • • • • • • • • • • • • •	✓
Corporate	CO-3 CO-1	✓ ✓		✓ ✓	✓	•
accounting		,			<b>↓</b>	
UCMM31A	CO-2	$\checkmark$				
	CO-3	$\checkmark$				✓
	CO-4	$\checkmark$				$\checkmark$
	CO-5	$\checkmark$			✓	
<b>Business Laws</b>	CO-1	$\checkmark$				
UCMM32A	CO-2	$\checkmark$				
	CO-3	$\checkmark$				
	<b>CO-4</b>	$\checkmark$			✓	
	CO-5	✓			✓	$\checkmark$
Banking Theory	CO-1	✓			✓	✓
J			1	L	1	

	<u> </u>	✓				
UCMM33A	<u>CO-2</u>					
-	<u>CO-3</u>	<ul> <li>✓</li> </ul>		✓		✓
-	<u>CO-4</u>	<ul> <li>✓</li> </ul>		✓		
	CO-5	✓		<ul> <li>✓</li> </ul>		
Marketing	CO-1	✓		✓	✓	✓
UCMM34A	CO-2	✓		✓		✓
	CO-3	✓		✓	✓	
	<b>CO-4</b>	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
	<b>CO-5</b>	$\checkmark$				$\checkmark$
<b>Business statistics</b>	CO-1	✓		✓		
allied	<b>CO-2</b>	✓		✓		
UCMA31A	CO-3	~		✓	✓	$\checkmark$
Advanced	CO-1	✓		✓		
corporate	<u>CO-1</u> CO-2	· ·		· ·		
accounting	<u> </u>	· ✓		✓		
UCMM41A	<u> </u>	✓ ✓				✓
	<u>CO-4</u> CO-5	▼ ✓		✓		•
	<u>CO-3</u> CO-1	✓ ✓		•		
company Law UCMM42A		▼ ✓		✓		
UCIVIIVI42A	<u>CO-2</u>			•		
	CO-3	~			~	
	<b>CO-4</b>	$\checkmark$			$\checkmark$	
	<b>CO-5</b>	✓				
<b>Financial services</b>	CO-1	✓		✓		
UCMM43A	CO-2	✓			✓	
	CO-3	✓			✓	
	<b>CO-4</b>	✓				
-	CO-5	✓				$\checkmark$
Business	CO-1	✓				
Taxation	CO-2	$\checkmark$			<ul> <li>✓</li> </ul>	
UCMM44A	CO-3	✓				
	CO-4	✓				✓
-	CO 5	✓			✓	
Or anotherse	<u>CO-5</u>	✓ ✓			•	
Operations <b>Descence</b> (allied)	<u>CO-1</u>	✓ ✓				
Research(allied)	<u>CO-2</u>	✓ ✓		<ul> <li>✓</li> <li>✓</li> </ul>		
UCMA41A	<u>CO-3</u>			✓		
	<u>CO-4</u>	<ul> <li>✓</li> </ul>				
	CO-5	<ul> <li>✓</li> </ul>				
Elements of cost	CO-1	<ul> <li>✓</li> </ul>		ļ		
accounting	CO-2	<ul> <li>✓</li> </ul>		ļ		
UCMM51A	CO-3	✓			✓	
	<b>CO-4</b>	✓		✓		
	CO-5	✓			✓	✓
Practical	CO-1	✓		✓		
Auditing	CO-2	$\checkmark$				$\checkmark$
UCMM52A	CO-3	✓			~	
Entrepreneurial	CO-1	✓				
development	CO-2	✓		✓	✓	
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			Г	T		
UCMM53A	CO-3	✓			$\checkmark$	
	<b>CO-4</b>	$\checkmark$			$\checkmark$	
	CO-5	✓				$\checkmark$
Financial	CO-1	✓				
management	CO-2	$\checkmark$				
UCMM54A	CO-3	✓				
	CO-4	$\checkmark$		✓	$\checkmark$	
	CO-5	✓		$\checkmark$	$\checkmark$	
Income Tax law	CO-1	✓ <b>√</b>				
and practice- 1(Elective)	CO-2	<ul> <li>✓</li> </ul>				$\checkmark$
UCMA51A	CO-3	√				$\checkmark$
	<b>CO-4</b>	✓				
	CO-5	✓			$\checkmark$	✓
Value Education	CO-1	✓				
UECM51A	<b>CO-2</b>	✓				
	CO-3	✓				
	CO-4	✓				
	CO-5	✓				
Advanced cost	CO-1	✓			✓	
Accounting	<u>CO-2</u>	$\checkmark$			$\checkmark$	
UCMM61A	<u>CO-2</u> CO-3	· ✓		✓		
	CO-3	· · · · · · · · · · · · · · · · · · ·			✓	
	CO-5	✓			$\checkmark$	$\checkmark$
Management	CO-1	$\checkmark$				
Accounting	<b>CO-2</b>	$\checkmark$		$\checkmark$		
UCMM62A	<b>CO-3</b>	✓				
	<b>CO-4</b>	✓				
	CO-5	✓			$\checkmark$	$\checkmark$
Business	CO-1	✓				
Environment	CO-2	✓		✓		
UCMM63A	CO-3	~			<ul> <li>✓</li> </ul>	
Income Tax law	CO-1	$\checkmark$				
and practice-	CO-2	✓				
II(Elective)	CO-3	✓		✓		
UCMA61A	CO-4	✓			✓	
	CO-5	✓			✓	$\checkmark$
Human Resource	CO-1	✓				
Management	CO-2	✓		✓		
(Elective)	CO-3	✓			✓	$\checkmark$
UCMA62A	<u> </u>	· ✓			· ·	✓
	<u>CO-4</u> CO-5	· ✓			· ·	✓
	<u> </u>	· · ·				-
	CO-1 CO-2				$\left\{ \begin{array}{c} \\ \end{array} \right\}$	
	<u>CO-3</u>					
	<u>CO-4</u>				$\left  \right $	
	CO-5					

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Course	Course	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
Subject Code	outcome	/				
Advanced	CO-1	<ul> <li>✓</li> </ul>				
corporate	CO-2	✓		✓	<ul> <li>✓</li> </ul>	
Accounting&	CO-3	✓				
accounting	CO-4	$\checkmark$				✓
standards	CO-5					$\checkmark$
PCMM11A	<u> </u>					
Financial	CO-1	✓				
Management	CO-2	✓				$\checkmark$
PCMM12E	CO-3	✓		$\checkmark$		
	CO-4	✓			✓	
	CO-5	✓			✓	
Organizational	CO-1	~				
Behavior	CO-2	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
PCMM13E	CO-3	$\checkmark$				
	<b>CO-4</b>	$\checkmark$			✓	
	CO-5	$\checkmark$				$\checkmark$
Managerial	CO-1	$\checkmark$		✓		
Economics	CO-2	$\checkmark$		✓		$\checkmark$
PCMM14A	CO-3	~				
Accounting for	CO-1	$\checkmark$				
specialized	CO-2	$\checkmark$				
institution Elective	CO-3	$\checkmark$		✓		
PCMA11E	<b>CO-4</b>	$\checkmark$			<ul> <li>✓</li> </ul>	
	CO-5	$\checkmark$			✓	
Advanced cost and	CO-1	$\checkmark$		✓		
management	CO-2	$\checkmark$				$\checkmark$
accounting	CO-3	$\checkmark$				$\checkmark$
PCMM21A	CO-4	$\checkmark$			✓	
	CO-5	✓			✓ <b>·</b>	
Quantitative	CO-3	· ✓				
Techniques for	CO-1 CO-2	✓ ✓			✓	✓
business decisions	CO-2 CO-3	✓ ✓		✓	· ·	<u> </u>
PCMM22A	CO-3 CO-4	▼ ✓		▼ ✓		 ✓
	CO-4 CO-5	 ✓		▼ ✓	+	•
COPORATE		▼ ✓		*	+	
	CO-1	✓ ✓		✓	+	✓
LAWS	CO-2	✓ ✓		<b>v</b>	$\checkmark$	v
	CO-3				✓	
	<u>CO-4</u>	✓				
	CO-5	✓			~	
Income Tax law and	CO-1	$\checkmark$				
practice-II(Elective)	CO-2	$\checkmark$			✓	$\checkmark$
PCMA21A	CO-3	$\checkmark$				
	CO-4	$\checkmark$			✓	$\checkmark$
	CO-5	$\checkmark$			✓	$\checkmark$

	00.1	✓			<u>г</u>	
Total Quality	<u>CO-1</u>					
Management	CO-2	<b>√</b>		$\checkmark$		
PCME21A	CO-3	✓				
	<b>CO-4</b>	✓				
	<b>CO-5</b>	$\checkmark$				
Research	<b>CO-1</b>	$\checkmark$		$\checkmark$	$\checkmark$	
Methodology	<b>CO-2</b>	$\checkmark$		$\checkmark$	✓	$\checkmark$
PCMM31A	CO-3	$\checkmark$				
Knowledge	CO-1	$\checkmark$				$\checkmark$
Management	<b>CO-2</b>	$\checkmark$				
PCMM32A	CO-3	$\checkmark$				
	<b>CO-4</b>	$\checkmark$				
	CO-5	$\checkmark$				
Fundamentals of IT	CO-1	$\checkmark$				✓
PCSM34A	CO-2	$\checkmark$				$\checkmark$
	<u> </u>	√ 			✓	
	<u> </u>	· ✓			· ·	
-	<u>CO-4</u> CO-5	· ✓			· ✓	
Indirect	<u> </u>	· ✓			•	
Tax(Elective)	<u>CO-1</u> CO-2	✓ ✓				
PCMA31A		 ✓			<ul> <li>✓</li> </ul>	
rumajia	<u>CO-3</u>	✓ ✓			▼ ✓	
-	<u>CO-4</u>				▼ ✓	
	<u>CO-5</u>	✓ ✓			v	
CRM&Relationship	<u>CO-1</u>					
marketing(Elective)	<u>CO-2</u>	<ul> <li>✓</li> </ul>		✓		1
PCMA32A	<u>CO-3</u>	<ul> <li>✓</li> </ul>		✓		<u> </u>
-	CO-4	<b>√</b>		$\checkmark$		$\checkmark$
	CO-5	<ul> <li>✓</li> </ul>				
Business Ethics,	CO-1	✓				
corporate	CO-2	✓				$\checkmark$
governance	CO-3	✓		$\checkmark$		
PCME31A	<b>CO-4</b>	$\checkmark$				
	CO-5	$\checkmark$				
Management	CO-1	$\checkmark$				
Information System	<b>CO-2</b>	$\checkmark$		$\checkmark$		
PCMM41A	<b>CO-3</b>	$\checkmark$				$\checkmark$
	<b>CO-4</b>	$\checkmark$		$\checkmark$		
	CO-5	$\checkmark$		√	✓	$\checkmark$
Investment analysis	CO-1	$\checkmark$				
and portfolio	CO-2	$\checkmark$		$\checkmark$		
management theory	CO-3	√				$\checkmark$
PCMM42A						
Merchant Banking	CO-1	$\checkmark$				
And financial	CO-2	$\checkmark$				
services	CO-3	✓		$\checkmark$		
PCMM43A	<b>CO-4</b>	$\checkmark$				
	CO-5	$\checkmark$		$\checkmark$	† †	✓
Strategic	CO-1	✓				
HRM(Elective)	CO-2	· ✓				
	00-2	-	I			

PCMA41C	CO-3	✓		
	<b>CO-4</b>	✓		
	CO-5	✓		
Project Viva-Voce	CO-1		✓	
	CO-2	✓	✓	
	<b>CO-3</b>	✓	✓	✓
	<b>CO-4</b>		$\checkmark$	$\checkmark$
	CO-5		$\checkmark$	

#### 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				

	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

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 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		

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

	CO 3										ü	!
	CO 4					ü						
	CO 5					ü						<u>├</u>
	CO 1						ü		ü	ü		
APPLIED	CO 2				ü				ü	ü		
OPERATIONS	CO 3								ü	ü		
RESEARCH	CO 4								ü	ü		
	CO 5						ü		ü	ü		
	CO 1					ü				ü	ü	
	CO 2			ü						ü		
HUMAN RESOURCE	CO 3			ü	ü							
MANAGEMENT	CO 4			ü								
	CO 5					ü					ü	
	CO 1	ü	ü							ü		
MADVETING	CO 2	ü	ü									
MARKETING MANAGEMENT	CO 3	ü										
MANAGEMENT	CO 4	ü	ü							ü		
	CO 5	ü	ü							ü	ü	
	CO 1			ü		ü					ü	
ODED A TIONS	CO 2											
OPERATIONS MANAGEMENT	CO 3									ü	ü	
MANAGEWIENT	CO 4					ü						
	CO 5							ü	ü			
	CO 1						ü	ü				
	CO 2						ü	ü		ü		
FINANCIAL MANAGEMENT	CO 3						ü	ü		ü		
MANAGEMENT	CO 4						ü	ü		ü		
	CO 5						ü	ü		ü		
INNOVATION AND	CO 1											
ENTREPRENEURSHIP	CO 2		ü				ü					
ENTREFRENEURSHIP	CO 3		ü								ü	

	CO 4		ü	ü	ü	ü	ü	ü	1	ü	ü	I	
	CO 5		u	u	u	ü	u	ü		u	ü		
	CO 1					4		4			4		
	CO 2		ü	ü				ü					
Strategic Management	CO 3		ü	ü									
8	CO 4				ü								
	CO 5									ü			
	CO 1			ü									
	CO 2		ü		ü								
Management	CO 3												
Information System	CO 4	ü				ü							
	CO 5	ü					ü						
	CO 6		ü					ü	ü				
	CO 1	ü											
	CO 2			ü									
International Business	CO 3				ü				ü				
	CO 4						ü	ü					
	CO 5										ü		
	CO 1	ü	ü										
Marketing Research and	CO 2	ü	ü										
Consumer Behaviour	CO 3	ü	ü										
Consumer Benaviour	CO 4	ü	ü										
	CO 5	ü	ü										
	CO 1	ü	ü										
Brand Management	CO 2	ü	ü										
Brand Management	CO 3	ü	ü										
	CO 4	ü	ü										
Advertising	CO 1	ü	ü										
Management And Sales	CO 2	ü	ü										
Promotion	CO 3	ü	ü										
Tomotion	CO 4	ü	ü										

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

1	CO 2	ü	ü	1	1		I	1	I	1	
	CO 2 CO 3	ü	ü								
	CO 4	ü	ü								
	CO 4	u	u	ü		ü	ü				
	CO 2			ü		ü	ü				
Security Analysis and	CO 2			ü		ü	ü				
Portfolio Management	CO 4			ü		ü	ü				
	CO 5			ü		ü	ü				
	CO 1			ü		ü	ü				
	CO 2			ü		ü	ü				
Corporate Finance	CO 3			ü		ü	ü				
	CO 4			ü		ü	ü				
	CO 5			ü		ü	ü				
	CO 1			ü		ü	ü				
	CO 2			ü		ü	ü				
Tax Management	CO 3			ü		ü	ü				
	CO 4			ü		ü	ü				
	CO 1			ü		ü	ü				
Merchant Banking and	CO 2			ü		ü	ü				
Financial Services	CO 3			ü		ü	ü				
	CO 4			ü		ü	ü				
	CO 1			ü		ü	ü				
Derivatives	CO 2			ü		ü	ü				
Management	CO 3			ü		ü	ü				
Wanagement	CO 4			ü		ü	ü				
	CO 5			ü		ü	ü				
	CO 1			ü		ü	ü				
	CO 2			ü		ü	ü				
Banking and Insurance	CO 3			ü		ü	ü				
	CO 4			ü		ü	ü				
	CO 5			ü		ü	ü				

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

1	I	1	1	1	1	1	1	1	1	1	I.	1	1
	CO 6				ü	ü							
	CO 1				ü	ü							
	CO 2				ü	ü							
	CO 3				ü	ü							
Organisational	CO 4				ü	ü							
Development	CO 5				ü	ü							
	CO 1				ü	ü					ü		
	CO 2				ü	ü					ü		
	CO 3				ü	ü					ü		
Industrial and Labour	CO 4				ü	ü					ü		
Relations	CO 5				ü	ü					ü		
	CO 1				ü	ü					ü		
	CO 2				ü	ü					ü		
	CO 3				ü	ü					ü		
Compensation	CO 4				ü	ü					ü		
Management	CO 5				ü	ü					ü		
<u>_</u>	CO 1				ü	ü							
	CO 2				ü	ü							
	CO 3				ü	ü							
Social Psychology	CO 4				ü	ü							
	CO 1	ü	ü										
	CO 2	ü	ü										
	CO 3	ü	ü										
Supply Chain	CO 4	ü	ü										
Management	CO 5	ü	ü										
Ŭ	CO 1			ü					ü	ü			1
	CO 2			ü					ü	ü			1
	CO 3			ü					ü	ü			1
Quality Management	CO 4			ü					ü	ü			