

<b>Academic Year</b>	<b>2018-19</b>
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**B.P.H.E. Society's  
Ahmednagar College, Ahmednagar  
Internal Quality Assurance Cell  
CO, PO, and PSO Attainment Sheet**

<b>Department Name</b>	
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<b>Program Name</b>	<b>BBA CA</b>
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<b>Program Outcomes(PO)</b>
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<b>PO1</b>	To provide sound academic base from which an advanced career in Computer Application can be developed.
<b>PO2</b>	Conceptual grounding in computer usage as well as its practical business application will be provided.
<b>PO3</b>	To make industry ready resource.
<b>PO4</b>	To bring the spirit of entrepreneurship.
<b>PO5</b>	
<b>PO6</b>	
<b>PO7</b>	
<b>PO8</b>	
<b>PO9</b>	
<b>PO10</b>	
<b>PO11</b>	
<b>PO12</b>	

<b>Program Specific Outcome(PSO)</b>
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<b>PSO1</b>	Fundamental Knowledge of computer, computer organization and c programming and Financial accounting
<b>PSO2</b>	Design the application using programming languages
<b>PSO3</b>	Ability to understand the principles and development methodologies of computer system

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Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	101			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Modern Operating Environment & MS Office		CO1	2	3	2	2	2	2	3
Semester No	1		CO2	3	3	2	1	2	2	3
Teacher Name	Sonawne Nalinee		CO3							
Course Outcomes			CO4							
	CO1	Students can learn how to use MS office	CO5							
	CO2	Students can be aware of Operating System Basic	Average	2.50	3.00	2.00	1.50	2.00	2.00	3.00
	CO3									
	CO4									
	CO5									

Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	102			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Financial Accounting		CO1	1	2	3	3	3	1	2
Semester No	1		CO2	1	1	3	2	3	1	1
Teacher Name	Sayyed Ayesah		CO3	1	1	2	3	3	1	2
Course Outcomes			CO4	1	3	3	3	2	2	2
	CO1	To enable the students to acquire sound knowledge of basic concepts of accounting	CO5							
	CO2	To impart basic accounting knowledge	Average	1.00	1.75	2.75	2.75	2.75	1.25	1.75
	CO3	To impart the knowledge about recording of transactions and preparation of final accounts								
	CO4	To acquaint the students about accounting software packages								
	CO5									

Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	103			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Programming Principal & Algorithms		CO1	1	2	3	3	1	3	3

Semester No	1	CO2							
Teacher Name	Sayed Amera	CO3							
Course Outcomes		CO4							
	CO1	To develop Analytical / Logical Thinking and Problem Solving capabilities	CO5						
	CO2		Average	1.00	2.00	3.00	3.00	1.00	3.00
	CO3								
	CO4								
	CO5								

Class	FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	104		PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Business Communication	CO1	1	2	3	3	3	2	1
Semester No	1	CO2	1	1	3	3	3	2	1
Teacher Name	Tejal Sonawne	CO3	1	1	3	3	3	1	1
Course Outcomes		CO4	1	2	3	3	3	2	1
	CO1	To understand the concept, process and importance of communication.	CO5						
	CO2	To develop an integrative approach where reading, writing, presentation skills are used together to enhance the students' ability to communicate and write effectively.	Average	1.00	1.50	3.00	3.00	3.00	1.75
	CO3	To create awareness among students about Methods and Media of communication.							
	CO4	To make students familiar with information technology and improve job seeking skills.							
	CO5								

Class	FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	105		PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Principles of Management	CO1	1	2	3	3	3	2	1
Semester No	1	CO2	1	1	3	3	3	2	1
Teacher Name	Sayyed Ayeshah	CO3	1	2	3	3	3	1	1
Course Outcomes		CO4							
	CO1	To provide the fundamental knowledge about working of business organization.	CO5						
	CO2	To make students well acquainted with management process , functions and principles.	Average	1.00	1.67	3.00	3.00	3.00	1.67
	CO3	To make the students familiar with recent trends in management.							
	CO4								

	CO5	
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Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	106			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Laboratory Course – I [Based on Paper No. 101 & 102]		CO1	3	3	3	3	3	3	3
Semester No	1		CO2	3	3	3	3	3	3	3
Teacher Name	Sonawane & Sayyad Ayesha		CO3							
Course Outcomes			CO4							
	CO1	Students can learn how to use MS office	CO5							
	CO2	To acquaint the students about accounting software packages	Average	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	CO3									
	CO4									
	CO5									

Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	201			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Procedure Oriented Programming using C		CO1	3	3	3	3	3	2	3
Semester No	2		CO2	3	3	3	3	3	2	3
Teacher Name	patel Sana		CO3	3	3	3	3	3	3	3
Course Outcomes			CO4	3	3	3	3			
	CO1	To understand the concept of Procedural Programming	CO5							
	CO2	To acquire basic programming skills using C Programming Language	Average	3.00	3.00	3.00	3.00	3.00	2.33	3.00
	CO3	To make students easily switch over to any other language in future								
	CO4	Students will Improve logical thinking through practical knowledge of C Programming								
	CO5									

Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	202			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Data Base Management System		CO1	3	3	3	3	3	3	2
Semester No	2		CO2	3	3	3	3	2	3	3

Teacher Name	Sonawne Nalinee		CO3	3	3	2	3	3	3	3
Course Outcomes			CO4	3	3	3	3	2	2	3
	CO1	To develop skills related with Database basic Concepts.	CO5							
	CO2	To understand role and importance File Structures and Organization	Average	3.00	3.00	2.75	3.00	2.50	2.75	2.75
	CO3	To Learn about Relational Database Designing.								
	CO4	To Develop right understanding of various Data models								
	CO5									

Class	FYBBA CA		Course Outcomes	Program Outcomes				PSOs		
Subject Code	203			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Organizational Behavior		CO1	2	1	3	3	3	1	2
Semester No	2		CO2	1	1	3	3	3	2	2
Teacher Name	Sayyed Ayesah		CO3							
Course Outcomes			CO4							
	CO1	To equip the students to understand the impact that individual, group & structures have on their behavior within the organizations.	CO5							
	CO2	To help them enhance and apply the knowledge they have received for the betterment of the organization.	Average	1.50	1.00	3.00	3.00	3.00	1.50	2.00
	CO3									
	CO4									
	CO5									

Class	FYBBA CA		Course Outcomes	Program Outcomes				PSOs		
Subject Code	204			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Elements of Statistics		CO1	1	2	3	3	3	2	2
Semester No	2		CO2	2	1	3	3	3	2	2
Teacher Name	Shinde Snehal		CO3	2	2	3	3	3	2	2
Course Outcomes			CO4							
	CO1	To understand the power of excel spreadsheet in computing summary statistics.	CO5							
	CO2	To understand the concept of various measures of central tendency and variation and their importance in business.	Average	1.67	1.67	3.00	3.00	3.00	2.00	2.00
	CO3	To understand the concept of probability, probability distributions and simulations in business world and decision making.								
	CO4									
	CO5									

Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	205			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	E-Commerce Concepts		CO1	1	2	3		3	1	1
Semester No	2		CO2	1	3	3		3	2	1
Teacher Name	Rexita Mary		CO3	1	2	3		3	2	2
Course Outcomes			CO4							
	CO1	To define key terms and concepts related to E-commerce such as B2B, B2C, C2C, online marketplaces, etc.	CO5							
	CO2	To understand the technical infrastructure and tools used in E-commerce	Average	1.00	2.33	3.00	#DIV/0!	3.00	1.67	1.33
	CO3	To Stay updated with emerging trends, technologies & security in E-commerce.								
	CO4									
	CO5									

Class		FYBBA CA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	206			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Laboratory Course – II [Based on Paper No. 201 & 202]		CO1	3	3	3	3	3	3	3
Semester No	2		CO2	3	2	3	3	3	3	3
Teacher Name			CO3	3	2	3	3	3	3	3
Course Outcomes			CO4							
	CO1	To assess the knowledge of student in C and DBMS	CO5							
	CO2	To make students proficient in application of theory into the practical	Average	3.00	2.33	3.00	3.00	3.00	3.00	3.00
	CO3	To acquire knowledge on writing computer programs using C Language								
	CO4	To create and manage Database using SQL								
	CO5									

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Class		SY BBA CA	Course Outcomes	Program Outcomes				PSOs			
Subject Code	Subject Name	Semester No		Teacher Name	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
CA-301	RELATIONAL DATABASE MANAGEMENT SYSTEMS	III	SANA PATEL	CO1	3	2	3	2	2	2	2
				CO2	2	2	2	2	1	2	1
				CO3	1	2	1	2	3	3	3
				CO4							
				CO5							
				Average	2.00	2.00	2.00	2.00	2.00	2.33	2.00
	CO1	Apply the database concepts, technology and create the relations by specifying primary and foreign keys.									
	CO2	Construct a database by using data definition, data manipulation and control languages									
	CO3	Design a Database application and retrieve the values with the help of queries using SQL.									
	CO4										
	CO5										

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs			
Subject Code	Subject Name	Semester No		Teacher Name	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
CA-302	Data Structures using C	III	MADHAVI DETHE	CO1	1	2	3	2	2	3	3
				CO2	3	2	1	1	2	2	1
				CO3	2	2	1	3	2	3	3
				CO4	1	2	2	1	1	2	2
				CO5							
				Average	1.75	2.00	1.75	1.75	1.75	2.50	2.25
	CO1	Students will be able to understand the concepts of ADTs and linear data structures-lists,stacks,queues									
	CO2	Students will be able to understand the sorting,searchingand hashing algorithmsand applytree and graph structures.									
	CO3	To learn linear data structures - list,stack and queue									
	CO4	To apply Tree and Graph structures									
	CO5										

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA-303			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Operating System Concepts		CO1	3	3	2	2	2	2	3
Semester No	III		CO2	2	3	1	1	1	2	2
Teacher Name	SHAIKH SHAHEEN		CO3	1	1	1	1	3	2	2
Course Outcomes			CO4	1	2	1	2	3	3	3
	CO1	To know the services provided by Operating System	CO5							
	CO2	To know the scheduling concept	Average	1.75	2.25	1.25	1.50	2.25	2.25	2.50
	CO3	To understand design issues related to memory management and various related algorithms								
	CO4	To understand design issues related to File management and various related algorithms								
	CO5									

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA-304			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Business Mathematics		CO1	2	1	1	2	1	1	1
Semester No	III		CO2	2	1	1	3	2	2	2
Teacher Name	SALVE SHRADHDHA		CO3							
Course Outcomes			CO4							
	CO1	To understand role and importance of Mathematics in various business situations and while developing softwares.	CO5							
	CO2	To develop skills related with basic mathematical technique	Average	2.00	1.00	1.00	2.50	1.50	1.50	1.50
	CO3									
	CO4									
	CO5									

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA-305			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Software Engineering		CO1	2	2	1	1	1	2	2
Semester No	III		CO2	2	3	2	2	1	1	1
Teacher Name	NALINEE SONAWNE		CO3							
Course Outcomes			CO4							
	CO1	Students will be able to understand the system concepts and learn software engineering concepts	CO5							



	CO2	Students will be able to understand the applications of software engineering concepts and design in software development	Average	2.00	2.50	1.50	1.50	1.00	1.50	1.50
	CO3									
	CO4									
	CO5									

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA-306			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Laboratory Course – III [Based on Paper No. 301 and 302 ]		CO1	1	2	1	1	1	2	2
Semester No	III		CO2	2	2	1	2	3	3	3
Teacher Name	SANA PATEL, MADHAVI DETHE		CO3	2	3	1	1	3	2	2
Course Outcomes			CO4							
	CO1	Apply the database concepts, technology and create the relations by specifying primary and foreign keys.	CO5							
	CO2	Construct a database by using data definition, data manipulation and control languages	Average	1.67	2.33	1.00	1.33	2.33	2.33	2.33
	CO3	Students will be able to understand the concepts of ADTs and linear data structures-lists,stacks,queues								
	CO4									
	CO5									

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA 401			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	OOP's using C++		CO1	1	2	3	1	2	1	2
Semester No	IV		CO2	2	1	2	1	1	2	2
Teacher Name	MADHAVI DETHE		CO3							
Course Outcomes			CO4							
	CO1	To understand the basic concepts of object oriented concepts and issues involved in effective class design	CO5							
	CO2	To enable students to write programs using C++ features like operator overloading,constructor and destructor , inheritance,polymorphism and exception handling	Average	1.50	1.50	2.50	1.00	1.50	1.50	2.00
	CO3									
	CO4									
	CO5									

Class	SY BBACA	Course	Program Outcomes	PSOs
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Subject Code	CA 402	Outcomes	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Programming in Visual Basic	CO1	2	2	1	1	1	2	2
Semester No	IV	CO2	2	3	3	2	2	3	2
Teacher Name	SHAHEEN SHAIKH	CO3	2	1	1	2	3	3	2
Course Outcomes		CO4							
	CO1	Students list the visual programming concepts.	CO5						
	CO2	Students code visual programs by using Visual Basic work environment	Average	2.00	2.00	1.67	1.67	2.00	2.67
	CO3	Students prepare various projects by helping visual programming.							
	CO4								
	CO5								

Class	SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA 403		PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Computer Networking	CO1	2	2	1	3	2	3	3
Semester No	IV	CO2	2	3	1	1	1	2	2
Teacher Name	NALINEE SONAWANE	CO3	2	1	1	1	1	1	3
Course Outcomes		CO4							
	CO1	To gain knowledge of computer network concepts	CO5						
	CO2	To know about working on networking models, addresses,transmission media and connectivity devices	Average	2.00	2.00	1.00	1.67	1.33	2.00
	CO3	To acquire information about network security and cryptography							
	CO4								
	CO5								

Class	SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA 404		PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Enterprise Resource Planning	CO1	2	2	1	1	2	3	2
Semester No	IV	CO2	2	2	2	2	1	1	3
Teacher Name	PATEL SANA	CO3							
Course Outcomes		CO4							
	CO1	Demonstrate a good understanding of basic issues in Enterprise Systems	CO5						
	CO2	Describe the selection, acquisition and implementation of enterprise systems	Average	2.00	2.00	1.50	1.50	1.50	2.00
	CO3								
	CO4								
	CO5								

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA 405			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Human Resource Management		CO1	1	2	3	2	3	2	3
Semester No	IV		CO2	1	2	2	1	2	2	3
Teacher Name	AYESHA SAYYED		CO3	1	1	1	1	3	1	1
Course Outcomes			CO4							
	CO1	Understand and apply Human Resource Management Perspective	CO5							
	CO2	Ability to recruit Select and interview job candidates	Average	1.00	1.67	2.00	1.33	2.67	1.67	2.33
	CO3	Apply the factors determining pay rates								
	CO4									
	CO5									

Class		SY BBACA	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA 406			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Laboratory Course – IV [Based on Paper No. 401 & 402 ]		CO1	2	3	3	3	3	3	1
Semester No	IV		CO2	3	3	3	3	3	2	2
Teacher Name	MADHAVI DETHE,SHAHEEN SHAIKH		CO3							
Course Outcomes			CO4							
	CO1	To understand the basic concepts of object oriented concepts and issues involved in effective class design	CO5							
	CO2	Students prepare various projects by helping visual programming.	Average	2.50	3.00	3.00	3.00	3.00	2.50	1.50
	CO3									
	CO4									
	CO5									

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Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	CA-501	PO1		PO2	PO3	PO4	PSO1	PSO2	PSO3	
Subject Name	JAVA PROGRAMMING	CO1	3	3	3	3	3	3	3	
Semester No	V	CO2	3	2	3	3	3	3	3	
Teacher Name	MRS DETHE MADHAVI	CO3								
Course Outcomes		CO4								
	CO1	To learn the basic concept of Java Programming	CO5							
	CO2	To understand how to use programming in day to day applications.	Average	3.00	2.50	3.00	3.00	3.00	3.00	
	CO3									
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	502	PO1		PO2	PO3	PO4	PSO1	PSO2	PSO3	
Subject Name	WEB TECHNOLOGIES	CO1	3	3	3	3	3	2	3	
Semester No	V	CO2	2	3	3	3	3	2	3	
Teacher Name	PATEL SANA	CO3								
Course Outcomes		CO4								
	CO1	To know & understand concepts of internet programming.	CO5							
	CO2	To understand how to develop web based applications using PHP.	Average	2.50	3.00	3.00	3.00	3.00	2.00	3.00
	CO3									
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	503	PO1		PO2	PO3	PO4	PSO1	PSO2	PSO3	
Subject Name	DOT NET PROGRAMMING	CO1	3	3	2	3	3	2	2	

Semester No	v	CO2	3	2	3	3	2	2	2
Teacher Name	DHONE SAYALI	CO3							
Course Outcomes		CO4							
	CO1	This will introduce visual programming and event driven programming practically.	CO5						
	CO2	This will enhance applications development skill of the student.	Average	3.00	2.50	2.50	3.00	2.50	2.00
	CO3								
	CO4								
	CO5								

Class	TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	504		PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	OOSE	CO1	3	3	3	3	3	3	3
Semester No	v	CO2	2	3	3	3	2	2	2
Teacher Name	AWATE S.A.	CO3							
Course Outcomes		CO4							
	CO1	To Understand concept of system design using UML.	CO5						
	CO2	To understand system development through object oriented techniques.	Average	2.50	3.00	3.00	3.00	2.50	2.50
	CO3								
	CO4								
	CO5								

Class	TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	505		PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Software Project – I [Based on C++ / VB Technology]	CO1	3	2	3	3	3	2	2
Semester No	v	CO2	3	3	3	3	3	2	2
Teacher Name	AWATE S.A	CO3							
Course Outcomes		CO4							
	CO1	To know & understand concepts of internet programming.	CO5						
	CO2	To understand the concepts of XML and AJAX.	Average	3.00	2.50	3.00	3.00	3.00	2.00
	CO3								
	CO4								
	CO5								

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	506			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Laboratory Course – V [Based on Paper No. 501 & 502 ]		CO1	3	3	3	3	3	3	3
Semester No	V		CO2	3	3	3	3	3	3	3
Teacher Name	DHONE SAYALI & DETHE MADHAVI		CO3	3	3	3	3	3	3	3
Course Outcomes			CO4							
	CO1	To know software development using JAVA	CO5							
	CO2	To study documentation,reports making	Average	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	CO3	To create web based applications using WEB TECH.								
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	601			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Advanced Web Technologies		CO1	2	3	2	3	2	3	3
Semester No	VI		CO2	2	3	3	3	2	3	2
Teacher Name	SANA PATEL		CO3							
Course Outcomes			CO4							
	CO1	To know & understand concepts of internet programming.	CO5							
	CO2	To understand the concepts of XML and AJAX.	Average	2.00	3.00	2.50	3.00	2.00	3.00	2.50
	CO3									
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	602			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Advanced Java		CO1	3	3	3	3	3	3	3
Semester No	VI		CO2	3	3	3	3	3	3	3
Teacher Name	DETHE MADHAVI		CO3	3	3	3	3			
Course Outcomes			CO4							
	CO1	To know the concept of Java Programming.	CO5							
	CO2	To understand how to use programming in day to day applications.	Average	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	CO3	To develop programming logic.								
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	603	PO1		PO2	PO3	PO4	PSO1	PSO2	PSO3	
Subject Name	RECENT TRENDS IN IT	CO1	2	3	2	3	2	2	2	
Semester No	VI	CO2	2	3	2	3	2	2	2	
Teacher Name	SHAHEEN SHAIKH	CO3								
Course Outcomes		CO4								
	CO1	To introduce upcoming trends in Information technology.	CO5							
	CO2	To study Eco friendly software development.	Average	2.00	3.00	2.00	3.00	2.00	2.00	
	CO3									
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	604	PO1		PO2	PO3	PO4	PSO1	PSO2	PSO3	
Subject Name	SOFTWARE TESTING	CO1	2	3	2	3	2	1	2	
Semester No	VI	CO2	2	3	3	2	1	2	1	
Teacher Name	AWATE S.A	CO3	2	3	2	2	2	2	1	
Course Outcomes		CO4								
	CO1	To know the concept of software testing.	CO5							
	CO2	To understand how to test bugs in software.	Average	2.00	3.00	2.33	2.33	1.67	1.67	
	CO3	To develop programming logic.								
	CO4									
	CO5									

Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	605	PO1		PO2	PO3	PO4	PSO1	PSO2	PSO3	
Subject Name	Software Project – II [Java / Dot net Technology]	CO1	3	3	3	3	3	3	3	
Semester No	VI	CO2	2	3	2	3	3	3	2	
Teacher Name	AWATE S.A	CO3	2	3	3	2	3	2	3	
Course Outcomes		CO4								
	CO1	To know advance software development	CO5							
	CO2	To build projects based on JAVA/DOT NET	Average	2.33	3.00	2.67	2.67	3.00	2.67	
	CO3	To know creation, development and documentation, test report								
	CO4									

	CO5	
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Class		TYBBA(CA)	Course Outcomes	Program Outcomes				PSOs		
Subject Code	606			PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3
Subject Name	Laboratory Course – VI [Based on Paper No. 601 & 602 ]		CO1	3	3	3	3	3	3	3
Semester No	VI		CO2	2	2	2	2	3	3	3
Teacher Name	SANA PATEL &DETHE MADHAVI		CO3	3	3	3	3	2	2	2
Course Outcomes			CO4							
	CO1	To build application based on advance concepts of JAVA & WEB	CO5							
	CO2	To create web application and create connectivity	Average	2.67	2.67	2.67	2.67	2.67	2.67	2.67
	CO3	To develop enterprise apps and use advance features								
	CO4									
	CO5									



**CO-PO Mapping**

**CO-PO ATTAINMENT**

**Percentage CO-PO ATTAINMENT**

		Course	PO1	PO2	PO3	PO4	
		1	101	2.50	3.00	2.00	1.50
		2	102	1.00	1.75	2.75	2.75
		3	103	1.00	2.00	3.00	3.00
		4	104	1.00	1.50	3.00	3.00
		5	105	1.00	1.67	3.00	3.00
		6	106	3.00	3.00	3.00	3.00
		7	201	3.00	3.00	3.00	3.00
		8	202	3.00	3.00	2.75	3.00
		9	203	1.50	1.00	3.00	3.00
		10	204	1.67	1.67	3.00	3.00
		11	205	1.00	2.33	3.00	#DIV/0!
		12	206	3.00	2.33	3.00	3.00
FY	FY						
		1	CA-301	2.00	2.00	2.00	2.00
		2	CA-302	1.75	2.00	1.75	1.75
		3	CA-303	1.75	2.25	1.25	1.50
		4	CA-304	2.00	1.00	1.00	2.50
		5	CA-305	2.00	2.50	1.50	1.50
		6	CA-306	1.67	2.33	1.00	1.33
		7	CA 401	1.50	1.50	2.50	1.00
		8	CA 402	2.00	2.00	1.67	1.67
		9	CA 403	2.00	2.00	1.00	1.67
		10	CA 404	2.00	2.00	1.50	1.50
		11	CA 405	1.00	1.67	2.00	1.33
		12	CA 406	2.50	3.00	3.00	3.00
SY	SY						
		1	CA-501	3.00	2.50	3.00	3.00
		2	502	2.50	3.00	3.00	3.00
		3	503	3.00	2.50	2.50	3.00
		4	504	2.50	3.00	3.00	3.00
		5	505	3.00	2.50	3.00	3.00
		6	506	3.00	3.00	3.00	3.00
		7	601	2.00	3.00	2.50	3.00
		8	602	3.00	3.00	3.00	3.00
		9	603	2.00	3.00	2.00	3.00
		10	604	2.00	3.00	2.33	2.33
		11	605	2.33	3.00	2.67	2.67
		12	606	2.67	2.67	2.67	2.67
TY	TY						

PO1	PO2	PO3	PO4
1.033333	1.24	0.826667	0.62
0.84	1.47	2.31	2.31
0.466667	0.933333	1.4	1.4
0.893333	1.34	2.68	2.68
0.52	0.866667	1.56	1.56
3	3	3	3
1.08	1.08	1.08	1.08
1.56	1.56	1.43	1.56
0.62	0.413333	1.24	1.24
0.333333	0.333333	0.6	0.6
0.68	1.586667	2.04	#DIV/0!
2.04	1.586667	2.04	2.04
0.4	0.4	0.4	0.4
0.35	0.4	0.35	0.35
0.35	0.45	0.25	0.3
0.4	0.2	0.2	0.5
0.4	0.5	0.3	0.3
1.666667	2.333333	1	1.333333
0.3	0.3	0.5	0.2
0.4	0.4	0.333333	0.333333
0.4	0.4	0.2	0.333333
0.4	0.4	0.3	0.3
0.2	0.333333	0.4	0.266667
2.5	3	3	3
1.56	1.3	1.56	1.56
1.3	1.56	1.56	1.56
0.92	0.766667	0.766667	0.92
1.3	1.56	1.56	1.56
3	2.5	3	3
3	3	3	3
1.68	2.52	2.1	2.52
2.2	2.2	2.2	2.2
1.68	2.52	1.68	2.52
1.68	2.52	1.96	1.96
2.333333	3	2.666667	2.666667
2.666667	2.666667	2.666667	2.666667

PO1	PO2	PO3	PO4
41.33333333	41.33333333	41.33333333	41.33333333
84	84	84	84
46.66666667	46.66666667	46.66666667	46.66666667
89.33333333	89.33333333	89.33333333	89.33333333
52	52	52	52
100	100	100	100
36	36	36	36
52	52	52	52
41.33333333	41.33333333	41.33333333	41.33333333
20	20	20	20
68	68	68	#DIV/0!
68	68	68	68
20	20	20	20
20	20	20	20
20	20	20	20
20	20	20	20
100	100	100	100
20	20	20	20
20	20	20	20
20	20	20	20
20	20	20	20
100	100	100	100
52	52	52	52
52	52	52	52
30.66666667	30.66666667	30.66666667	30.66666667
52	52	52	52
100	100	100	100
100	100	100	100
84	84	84	84
73.33333333	73.33333333	73.33333333	73.33333333
84	84	84	84
84	84	84	84
100	100	100	100
100	100	100	100

## CO-PSO MAPPING

## CO-PSO ATTAINMENT

## Percentage CO-PSO ATTAINMENT

	Course	PSO1	PSO2	PSO3
FY	1 101	2.00	2.00	3.00
	2 102	2.75	1.25	1.75
	3 103	1.00	3.00	3.00
	4 104	3.00	1.75	1.00
	5 105	3.00	1.67	1.00
	6 106	3.00	3.00	3.00
	7 201	3.00	2.33	3.00
	8 202	2.50	2.75	2.75
	9 203	3.00	1.50	2.00
	10 204	3.00	2.00	2.00
	11 205	3.00	1.67	1.33
	12 206	3.00	3.00	3.00
SY	1 CA-301	2.00	2.33	2.00
	2 CA-302	1.75	2.50	2.25
	3 CA-303	2.25	2.25	2.50
	4 CA-304	1.50	1.50	1.50
	5 CA-305	1.00	1.50	1.50
	6 CA-306	2.33	2.33	2.33
	7 CA 401	1.50	1.50	2.00
	8 #REF!	2.00	2.67	2.00
	9 CA 403	1.33	2.00	2.67
	10 CA 404	1.50	2.00	2.50
	11 CA 405	2.67	1.67	2.33
	12 CA 406	3.00	2.50	1.50
TY	1 CA-501	3.00	3.00	3.00
	2 502	3.00	2.00	3.00
	3 503	2.50	2.00	2.00
	4 504	2.50	2.50	2.50
	5 505	3.00	2.00	2.00
	6 506	3.00	3.00	3.00
	7 601	2.00	3.00	2.50
	8 602	3.00	3.00	3.00
	9 603	2.00	2.00	2.00
	10 604	1.67	1.67	1.33
	11 605	3.00	2.67	2.67
	12 606	2.67	2.67	2.67

Course	PSO1	PSO2	PSO3
101	0.826667	0.826667	1.24
102	2.31	1.05	1.47
103	0.466667	1.4	1.4
104	2.68	1.563333	0.893333
105	1.56	0.866667	0.52
106	3	3	3
201	1.08	0.84	1.08
202	1.3	1.43	1.43
203	1.24	0.62	0.826667
204	0.6	0.4	0.4
205	2.04	1.133333	0.906667
206	2.04	2.04	2.04
CA-301	0.4	0.466667	0.4
CA-302	0.35	0.5	0.45
CA-303	0.45	0.45	0.5
CA-304	0.3	0.3	0.3
CA-305	0.2	0.3	0.3
CA-306	2.333333	2.333333	2.333333
CA 401	0.3	0.3	0.4
#REF!	0.4	0.533333	0.4
CA 403	0.266667	0.4	0.533333
CA 404	0.3	0.4	0.5
CA 405	0.533333	0.333333	0.466667
CA 406	3	2.5	1.5
CA-501	1.56	1.56	1.56
502	1.56	1.04	1.56
503	0.766667	0.613333	0.613333
504	1.3	1.3	1.3
505	3	2	2
506	3	3	3
601	1.68	2.52	2.1
602	2.2	2.2	2.2
603	1.68	1.68	1.68
604	1.4	1.4	1.12
605	3	2.666667	2.666667
606	2.666667	2.666667	2.666667

Course	PSO1	PSO2	PSO3
101	41.33333	41.33333	41.33333
102	84	84	84
103	46.66667	46.66667	46.66667
104	89.33333	89.33333	89.33333
105	52	52	52
106	100	100	100
201	36	36	36
202	52	52	52
203	41.33333	41.33333	41.33333
204	20	20	20
205	68	68	68
206	68	68	68
CA-301	20	20	20
CA-302	20	20	20
CA-303	20	20	20
CA-304	20	20	20
CA-305	20	20	20
CA-306	100	100	100
CA 401	20	20	20
#REF!	20	20	20
CA 403	20	20	20
CA 404	20	20	20
CA 405	20	20	20
CA 406	100	100	100
CA-501	52	52	52
502	52	52	52
503	30.66667	30.66667	30.66667
504	52	52	52
505	100	100	100
506	100	100	100
601	84	84	84
602	73.33333	73.33333	73.33333
603	84	84	84
604	84	84	84
605	100	100	100
606	100	100	100