

**Bharati Vidyapeeth (Deemed to be University), Pune**  
**Faculty of Management Studies**  
**BoS in Computer Applications and Systems Studies**  
**AKIMSS, Solapur**  
**BCA 2022 Program: Attainment of Program Outcomes (POs): 2022 Cohort**

Sr. No.	Faculty	Code
Faculty of Management Studies		
1	Bachelor of Computer Applications (BCA): 2022 Program	

<b>Bharati Vidyapeeth (Deemed to be University), Pune</b>
<b>Abhijeetdada Kadam Institute of Management &amp; Social Sciences, Solapur</b>

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Program		Code
Bachelor of Computer Applications (BCA): 2022 Program		
Semester	Course/Subject	Code
<b>I</b>	Fundamentals of Information Technology	101
	C Programming	102
	Organization of IT Business	103
	Discrete Mathematics	104
	Lab on MS-Office Suite	105
	Lab on C Programming I	106
	Universal Human Values	107
	Language I	108
<b>II</b>	Web Development Technology	201
	DBMS I	202
	Data Structures Using C	203
	Financial Accounting	204
	Lab Data Structures Using C	205
	Lab on Web Development Technology	206
	Environmental Studies	207
	Community Work (Swaccha Bharat Abhiyan)	208
<b>III</b>	Operating Systems	301
	Software Engineering	302
	Java Programming	303
	Statistics	304
	Lab on Oracle	305
	Lab on Java	306
	Startup Management	307
Yoga & Meditation	308	
<b>IV</b>	Computer Networks	401
	Advanced Java	402
	Advanced HTML with JavaScript & CSS	403
	Optimization Techniques	404
	Lab on Advanced Java	405
	Lab on HTML, JavaScript, and CSS & Project - I	406
	Cyber Security	407
	Mathematical Aptitude	408
<b>V</b>	Python Programming	501
	Dot Net Programming Using C#	502
	Entrepreneurship Development	503
	Data Analysis Using Excel	504-1-A
	Information Security Concepts	504-2-A
	Statistical Programming using R	504-3-A
	Commerce	504-4-A-E
	Lab on Python	505
	Lab on Dot Net & C#	506
	IT Based Aptitude	507
Human Rights	508	
<b>VI</b>	Data Warehousing & Data Mining	601
	Web Programming (PHP)	602
	Software Project Management	603
	R Programming	604-1-B-R
	Information Security Administration	604-2-B
	Introduction to Data Science	604-3-B
	Knowledge Management	604-4-B
	Lab on Web Programming with Project	605
	Lab on Data Visualization	606
	Digital Marketing	607
Indian Culture	608	
<b>VII</b>	Artificial Intelligence & Machine Learning	701
	Object Oriented Analysis & Design	702
	Mobile Application Development with Lab	703
<b>VIII</b>	Cloud Computing	801
	Enterprise Resource Planning	802
	Blockchain Technology	803

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Program Outcome Code	Domain	Program Outcome Statement <i>Our graduates</i>
<b>PO 1</b>	Computational Knowledge	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
<b>PO 2</b>	Problem Analysis	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.
<b>PO 3</b>	Design / Development of Solutions	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.
<b>PO 4</b>	Conduct Investigations of Complex	Devise and conduct experiments, interpret data and provide well informed conclusions.
<b>PO 5</b>	Modern Tool Usage	Select modern computing tools, skills and techniques necessary for innovative software solutions.
<b>PO 6</b>	Professional Ethics	Apply and commit professional ethics and cyber regulations in a global economic environment.
<b>PO 7</b>	Life-long Learning	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.
<b>PO 8</b>	Project Management	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.
<b>PO 9</b>	Communication Efficacy	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
<b>PO 10</b>	Societal & Environmental Concern	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.
<b>PO 11</b>	Individual & Team Work	Work as a member or leader in diverse teams in multidisciplinary environment.
<b>PO 12</b>	Innovation & Entrepreneurship	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.

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**BCA 2022 Program: Attainment of Program Outcomes (POs): 2022 Cohort**

Program Outcome Code	Program Outcome Statement <i>Our graduates</i>	Attainment Summary (%) 2022 Cohort	
		Target^	Actual*
PO 01	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.	80	83
PO 02	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.	80	81
PO 03	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.	80	84
PO 04	Devise and conduct experiments, interpret data and provide well informed conclusions.	80	86
PO 05	Select modern computing tools, skills and techniques necessary for innovative software solutions.	80	83
PO 06	Apply and commit professional ethics and cyber regulations in a global economic environment.	80	89
PO 07	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.	80	88
PO 08	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.	80	88
PO 09	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.	80	97
PO 10	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.	80	92
PO 11	Work as a member or leader in diverse teams in multidisciplinary environment.	80	87
PO 12	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	80	91

**Note:**

**^Target Benchmark: 80% of the students should pass the course.**

**\*Actual Passed: The percentage of students that actually passed the course.**

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Program Outcome Code	Program Outcome Statement <i>Our graduates</i>	Attainment (%) 2022 Cohort		Semester I								Semester II							
		Target <sup>^</sup>	Actual <sup>*</sup>	101	102	103	104	105	106	107	108	201	202	203	204	205	206	207	208
PO 01	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.	80	78	64	48	72	64	99	99			74	76	79	63	99	99		
PO 02	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.	80	73	64	48	72	64	99	99			74	76		63				
PO 03	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.	80	78	64	48	72	64	99	99			74	76	79	63	99	99		
PO 04	Devise and conduct experiments, interpret data and provide well informed conclusions.	80	83	64		72	64	99	99				76	79		99	99		
PO 05	Select modern computing tools, skills and techniques necessary for innovative software solutions.	80	78	64		72	64	99				74	76	79		99			
PO 06	Apply and commit professional ethics and cyber regulations in a global economic environment.	80	86			72					100								
PO 07	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.	80	86			72					100								
PO 08	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.	80	88									74		79		99	99		
PO 09	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.	80	95							100	100			79		99			
PO 10	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.	80	100															100	100
PO 11	Work as a member or leader in diverse teams in multidisciplinary environment.	80	85	64										79			99		
PO 12	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	80	99													99			

**Note:**  
<sup>^</sup>Target Benchmark: 80% of the students should pass the course.  
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Program Outcome Code	Program Outcome Statement <i>Our graduates</i>	Attainment (%) 2022 Cohort		Semester III								Semester IV							
		Target <sup>^</sup>	Actual <sup>*</sup>	301	302	303	304	305	306	307	308	401	402	403	404	405	406	407	408
PO 01	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.	80	89	60	76	96	63	100	100	100		75	90	99	81	100		100	100
PO 02	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.	80	89	60	76	96	63	100	100	100		75	90	99	81	100	100	100	100
PO 03	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.	80	89	60	76	96	63	100	100	100		75	90	99	81	100	100	100	100
PO 04	Devise and conduct experiments, interpret data and provide well informed conclusions.	80	89	60	76	96	63	100	100	100		75		99		100		100	100
PO 05	Select modern computing tools, skills and techniques necessary for innovative software solutions.	80	87	60	76		63		100	100		75		99		100	100	100	
PO 06	Apply and commit professional ethics and cyber regulations in a global economic environment.	80	92		76									99				100	
PO 07	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.	80	89	60	76				100	100		75				100		100	100
PO 08	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.	80	88	60	76	96			100	100		75				100		100	
PO 09	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.	80	100															100	
PO 10	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.	80	84	60							100	75						100	
PO 11	Work as a member or leader in diverse teams in multidisciplinary environment.	80	89	60	76				100	100	100	75				100		100	
PO 12	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	80	82	60	76						100	75						100	

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Program Outcome Code	Program Outcome Statement <i>Our graduates</i>	Attainment (%) 2022 Cohort		Semester V										
		Target <sup>^</sup>	Actual <sup>*</sup>	501	502	503	504-1-A	504-2-A	504-3-A	504-4-A-E	505	506	507	508
PO 01	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.	80	NA	Y	Y	Y	Y	Y	Y	Y	Y		Y	
PO 02	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.	80	NA	Y	Y		Y		Y	Y	Y	Y	Y	Y
PO 03	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.	80	NA	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PO 04	Devise and conduct experiments, interpret data and provide well informed conclusions.	80	NA	Y			Y		Y	Y	Y		Y	
PO 05	Select modern computing tools, skills and techniques necessary for innovative software solutions.	80	NA	Y	Y		Y	Y	Y	Y	Y	Y		
PO 06	Apply and commit professional ethics and cyber regulations in a global economic environment.	80	NA	Y			Y			Y	Y			Y
PO 07	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.	80	NA	Y			Y	Y	Y	Y	Y		Y	
PO 08	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.	80	NA			Y	Y			Y		Y		
PO 09	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.	80	NA				Y			Y				
PO 10	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.	80	NA			Y				Y				
PO 11	Work as a member or leader in diverse teams in multidisciplinary environment.	80	NA			Y				Y		Y		
PO 12	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	80	NA		Y	Y	Y			Y				

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<sup>\*</sup>Actual Passed: The percentage of students that actually passed the course.

**Note:**  
 2022 Cohort has completed 4 semesters of the program. Hence, attainment is calculated for these 4 semesters only.

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Program Outcome Code	Program Outcome Statement <i>Our graduates</i>	Attainment (%) 2022 Cohort		Semester VI										
		Target <sup>^</sup>	Actual*	601	602	603	604-1-B-R	604-2-B	604-3-B	604-4-B	605	606	607	608
PO 01	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.	80	NA	Y	Y		Y	Y	Y	Y	Y	Y		
PO 02	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.	80	NA	Y	Y		Y		Y	Y	Y			
PO 03	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.	80	NA	Y	Y		Y		Y	Y	Y	Y		
PO 04	Devise and conduct experiments, interpret data and provide well informed conclusions.	80	NA	Y	Y		Y		Y	Y	Y			
PO 05	Select modern computing tools, skills and techniques necessary for innovative software solutions.	80	NA	Y	Y		Y	Y	Y	Y	Y	Y	Y	
PO 06	Apply and commit professional ethics and cyber regulations in a global economic environment.	80	NA	Y			Y			Y				
PO 07	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.	80	NA				Y	Y		Y		Y	Y	
PO 08	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.	80	NA			Y	Y			Y		Y	Y	
PO 09	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.	80	NA			Y	Y			Y				
PO 10	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.	80	NA			Y				Y				
PO 11	Work as a member or leader in diverse teams in multidisciplinary environment.	80	NA			Y				Y		Y	Y	
PO 12	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	80	NA				Y			Y				

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Program Outcome Code	Program Outcome Statement <i>Our graduates</i>	Attainment (%) 2022 Cohort		Semester VII			Semester VIII		
		Target <sup>^</sup>	Actual <sup>*</sup>	701	702	703	801	802	803
PO 01	Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.	80	NA	Y		Y	Y	Y	Y
PO 02	Identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.	80	NA	Y	Y	Y	Y	Y	Y
PO 03	Transform complex business scenarios and contemporary issues into problems, and investigate, understand and propose integrated solutions using emerging technologies.	80	NA	Y	Y	Y	Y	Y	Y
PO 04	Devise and conduct experiments, interpret data and provide well informed conclusions.	80	NA	Y			Y		Y
PO 05	Select modern computing tools, skills and techniques necessary for innovative software solutions.	80	NA	Y	Y	Y	Y	Y	Y
PO 06	Apply and commit professional ethics and cyber regulations in a global economic environment.	80	NA		Y		Y	Y	Y
PO 07	Recognize the need for and develop the ability to engage in continuous learning as a computing professional.	80	NA		Y	Y	Y	Y	Y
PO 08	Understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.	80	NA		Y		Y	Y	
PO 09	Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.	80	NA				Y		Y
PO 10	Recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.	80	NA	Y		Y	Y	Y	
PO 11	Work as a member or leader in diverse teams in multidisciplinary environment.	80	NA			Y	Y		
PO 12	Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.	80	NA	Y		Y	Y		Y

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