Annasaheb Dange College of Engineering and Technology Ashta

Department of Computer Application

Bachelor of Computer Application Program

Sl.No		I	II	III	IV	V	VI	Total
1	Program Core (PC)	12	9	12	15		4	52
2	Program Elective (PE)			4	5	14	10	33
3	Ability Enhancement Courses (AE)	1		2			2	5
4	Skill Enhancement Courses (SE)	5	7	4	2	6	4	28
5	Open Elective (OE)		2					2
6	Value Added Courses (VA)	3	3					6
		21	21	22	22	20	20	126
		42		44		40		126
		First Year		Second Year		Third Year		

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Annasaheb Dange College of Engineering and Technology Ashta
Department of Computer Application
Bachelor of Computer Application Program

Semester I

Course Code	Course Name	Teaching Scheme				THEORY							PRACTICAL						GRAND TOTAL
						ISE		MSE+ ESE			Total	Min	ISE		ESE		Total	Min	
		L	T	P	Credits	Max	Min	MSE	ESE	Min			Max	Min	Max	Min			
0BCPC101	Mathematics Foundations to Computer Science - I	3	1	-	4	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCPC102	Computer Architecture	3	-	2	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPC103	Operating Systems	3	-	2	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCSE104	Problem Solving Techniques	3	-	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCAE105	General English	-	-	2	1	-	-	-	-	-	-	-	50	20	-	-	50	20	50
0BCVA106	Environmental Science and Sustainability	2	-	-	2	50	20	-	-	-	50	20	-	-	-	-	-	-	50
0BCVA107	Value added Course (Yoga)	-	-	2	1	-	-	-	-	-	-	-	50	20	-	-	50	20	50
		14	1	12	21														
	Total Contact Hours/Week	27																	700

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Annasaheb Dange College of Engineering and Technology Ashta
Department of Computer Application
Bachelor of Computer Application Program

Semester II

Course Code	Course Name	Teaching Scheme				THEORY							PRACTICAL						GRAND TOTAL
						ISE		MSE+ ESE			Total	Min	ISE		ESE		Total	Min	
		L	T	P	Credits	Max	Min	MSE	ESE	Min			Max	Min	Max	Min			
0BCPC108	Mathematics Foundations to Computer Science - II	3	1	-	4	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCPC109	Data Structures using C language	3	-	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCSE110	Object Oriented Programming using Java	2	-	4	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCSE111	Web Technologies	2	-	2	3	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCOE112	IKS: Indian Vision for Human Society	2	-	-	2	50	20	-	-	-	50	20	-	-	-	-	-	-	50
0BCVA113	Indian Constitution	2	-	-	2	50	20	-	-	-	50	20	-	-	-	-	-	-	50
0BCVA114	Value added Course (Sports)	-	-	2	1	-	-	-	-	-	-	-	50	20	-	-	50	20	50
		14	1	12	21														
	Total Contact Hours/Week	27																	700

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Semester III

Course Code	Course Name	Teaching Scheme				THEORY							PRACTICAL						GRAND TOTAL
						ISE		MSE + ESE			Total	Min	ISE		ESE		Total	Min	
		L	T	P	Credits	Max	Min	MSE	ESE	Min			Max	Min	Max	Min			
0BCPC201	Probability and Statistics	3	1	-	4	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCPC202	Database Management System	2	-	2	3	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPC203	Software Engineering	3	-	-	3	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCPC204	Principles and Practices of Management	2	-	-	2	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCSE205	Python Programming	2	-	4	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPE2xx	Program Elective - I	2	-	4	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCAE209	Aptitude and Reasoning	1	1	-	2	50	20	-	-	-	50	20	-	-	-	-	-	-	50
		15	2	10	22														
	Total Contact Hours/Week	27																	800

Program Elective I	
0BCPE206	Basics of Data Analytics using Spreadsheet [Data Science]
0BCPE207	Feature Engineering [Artificial Intelligence & Machine Learning]
0BCPE208	Web Programming - I [Full Stack Development]

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Semester IV

Course Code	Course Name	Teaching Scheme				THEORY							PRACTICAL						GRAND TOTAL
						ISE		MSE+ ESE			Total	Min	ISE		ESE		Total	Min	
		L	T	P	Credits	Max	Min	MSE	ESE	Min			Max	Min	Max	Min			
0BCPC210	Entrepreneurship and Startup Ecosystem	1	1	-	2	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCPC211	Computer Network	3	-	2	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPC212	Design and Analysis of Algorithm	3	-	2	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPC213	Human Behaviour and Organization	2	-	-	2	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCPC214	Cyber Security	3	-	-	3	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCSE215	Design Thinking and Innovation	1	1	-	2	-	-	-	-	-	-	-	50	20	-	-	50	20	50
0BCPE2xx	Program Elective - II	3	-	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
		16	2	8	22														
	Total Contact Hours/Week	26																	800

Program Elective II	
0BCPE216	Data Visualization [Data Science]
0BCPE217	Introduction to ML [Artificial Intelligence & Machine Learning]
0BCPE218	Web Programming -II [Full Stack Development]

Note: Students should undergo Industrial internship activity after 4th semester. The assessment will be carried out during 5th semester.

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Semester V

Course Code	Course Name	Teaching Scheme				THEORY							PRACTICAL						GRAND TOTAL
						ISE		MSE+ ESE			Total	Min	ISE		ESE		Total	Min	
		L	T	P	Credits	Max	Min	MSE	ESE	Min			Max	Min	Max	Min			
0BCPE3xx	Program Elective - III	3	0	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPE3xx	Program Elective - IV	3	0	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPE3xx	Program Elective - V	3	0	2	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCSE310	Quantitative Techniques	1	1	0	2	40	16	30	30	24	100	40	-	-	-	-	-	-	100
0BCSE311	Internship	0	0	8	4	-	-	-	-	-	-	-	100	40	-	-	100	40	100
		10	1	18	20														
	Total Contact Hours/Week	**29**																	**650**

Program Elective III	
0BCPE301	Introduction to Data Science [Data Science]
0BCPE302	Deep Learning [Artificial Intelligence & Machine Learning]
0BCPE302	Web Programming -III [Full Stack Development]

Program Elective IV	
0BCPE304	Time Series Analysis [Data Science]
0BCPE306	Digital Image Processing [Artificial Intelligence & Machine Learning]
0BCPE306	Web Programming -IV [Full Stack Development]

Program Elective V	
0BCPE307	Big Data Analytics [Data Science]
0BCPE306	Natural Language Processing [Artificial Intelligence & Machine Learning]
0BCPE309	Web Programming -V [Full Stack Development]

Note - Major project titles and synopsis be initiated in semester Vth and synopsis presentation carried out during semester Vth itself.

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Semester VI

Course Code	Course Name	Teaching Scheme				THEORY							PRACTICAL						GRAND TOTAL
						ISE		MSE+ ESE			Total	Min	ISE		ESE		Total	Min	
		L	T	P	Credits	Max	Min	MSE	ESE	Min			Max	Min	Max	Min			
0BCPC312	Generative AI	2	0	4	4	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPE3xx	Program Elective - VI	3	0	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCPE3xx	Program Elective - VII	3	0	4	5	40	16	30	30	24	100	40	25	10	25	10	50	20	150
0BCAE319	Soft Skills	2	0	0	2	50	20	-	-	-	50	20	-	-	-	-	-	-	50
0BCSE320	Major Project	0	0	8	4	-	-	-	-	-	-	-	50	20	50	20	100	40	100
		10	**0**	**20**	**20**														**600**
	Total Contact Hours/Week	**30**																	

Program Elective - VI	
0BCPE313	Exploratory Data Analysis [Data Science]
0BCPE314	Introduction to AGENTIC AI [Artificial Intelligence & Machine Learning]
0BCPE315	Web Programming -VI [Full Stack Development]

Program Elective - VII	
0BCPE316	Business Intelligence & Analytics [Data Science]
0BCPE317	Predictive Analysis [Artificial Intelligence & Machine Learning]
0BCPE318	Web Programming -VII [Full Stack Development]

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