MANGALORE UNIVERSITY
Bachelor of Computer Applications (BCA) Degree Programme Pattern and Scheme of Examinations

I SEMESTER

Group	Course Code	Course	Instruction Hours/Week	Duration of exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credits
I	BCAC131	Fundamentals of Information Technology	4	3	20	80	100	2
	BCAC132	Problem Solving using C	4	3	20	80	100	2
	BCAC133	Computer Organization	4	3	20	80	100	2
	BCAP134	Office Automation Lab	4	3	20	80	100	2
	BCAP135	C Programming Lab	4	3	20	80	100	2
II	BCACE136 BCACE137	E1 : Internet Basics & HTML E2: Cloud Computing	2	2	10	40	50	1
III		Foundation Language-I	4	3	20	80	100	2
		Foundation Language-II	4	3	20	80	100	2
		Elective Foundation	2	2	10	40	50	1
IV		EC & CC	2	2	50	-	50	1
		Total	36	27	210	640	850	17

II SEMESTER

Group	Course Code	Course	Instruction Hours/Week	Duration of exams (Hrs)	Marks & Credits			
					IA	Exam	Total	Credits
I	BCAC181	Basic Mathematics	4	3	20	80	100	2
	BCAC182	Object Oriented Programming using C++	4	3	20	80	100	2
	BCAC183	Database Concepts and Oracle	4	3	20	80	100	2
	BCAP184	C++ Lab	4	3	20	80	100	2
	BCAP185	DBMS Lab	4	3	20	80	100	2
II	BCACE186 BCACE187 BCACE188	E1 : Internet of Things E2: Big Data Analytics E3: Artificial Intelligence	2	2	10	40	50	1
III		Foundation Language-I	4	3	20	80	100	2
		Foundation Language-II	4	3	20	80	100	2
		Elective Foundation	2	2	10	40	50	1
IV		EC &CC	2	2	50	-	50	1
		Total	34	27	210	640	850	17

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III SEMESTER

Group	Course Code	Course	Instruction Hours/Week	Duration of exams (Hrs)	IA	Exam	Total	Credits
I	BCAC231	Operating Systems & Linux	4	3	20	80	100	2
	BCAC232	Data Structures	4	3	20	80	100	2
	BCAC233	Visual Basic .NET Programming	4	3	20	80	100	2
	BCAP234	Operating Systems and Data Structures lab	4	3	20	80	100	2
	BCAP235	VB.Net Lab	4	3	20	80	100	2
II	BCACE236 BCACE237	E1 : Hardware & PC Maintenance E2 : Desktop Publishing	2	2	10	40	50	1
III		Foundation Language-I	4	3	20	80	100	2
		Foundation Language-II	4	3	20	80	100	2
		Elective Foundation	2	2	10	40	50	1
IV		EC &CC	2	2	50	-	50	1
		Total	**36**	**27**	**210**	**640**	**850**	**17**

BCA206: Elective   Courses: Course Detailed are attached in APPENDIX I

IV SEMESTER

Group	Course Code	Course	Instruction Hours/Week	Duration of exams (Hrs)	IA	Exam	Total	Credits
I	BCAC281	Computer Graphics and Animation	4	3	20	80	100	2
	BCAC282	Java Programming	4	3	20	80	100	2
	BCAC283 BCAC284 BCAC285	E1: Data Mining E2: CONA E3: Business Statistics & Mathematics	4	3	20	80	100	2
	BCAP286	Computer Graphics and Animation Lab	4	3	20	80	100	2
	BCAP287	Java Lab	4	3	20	80	100	2
II	BCAOE288 BCAOE289	E1 : Fundamentals of ICT E2: E-Commerce	2	2	10	40	50	1
III		Foundation Language-I	4	3	20	80	100	2
		Foundation Language-II	4	3	20	80	100	2
		Elective Foundation	2	2	10	40	50	1
IV		EC &CC	2	2	50	-	50	1
		Total	**36**	**27**	**210**	**640**	**850**	**17**

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V SEMESTER

Group	Course Code	Course Particulars	Instruction Hours/Week	Duration of exams (Hrs)	IA	Exam	Total	Credits
I	BCAC331	Software Engineering	4	3	20	80	100	2
	BCAC332	Computer & Communication Networks	4	3	20	80	100	2
	BCAC333	Distributed Computing	4	3	20	80	100	2
	BCAC334	Web Technology	4	3	20	80	100	2
	BCAC335	Python Programming	4	3	20	80	100	2
	BCAC336 BCAC337 BCAC338	E1: Accounting & Financial Management E2: Android Application Development E3: SciLab Programming	4	3	20	80	100	2
	BCAP339	Web Applications Lab	3	3	20	80	100	2
	BCAP340	Python Programming Lab	3	3	20	80	100	2
	BCAP341 BCAP342 BCAP343	E1:AFM Lab / E2: AAD Lab / E3: SciLab	3	3	20	80	100	2
		Total	**33**	**27**	**180**	**720**	**900**	**18**

VI SEMESTER

Group	Course Code	Course Particulars	Instruction Hours/Week	Duration of exams (Hrs)	IA	Exam	Total	Credits
I	BCAC381	E-Commerce	4	3	20	80	100	2
	BCAC382	Network Security & Management	4	3	20	80	100	2
	BCAC383	Software Testing	4	3	20	80	100	2
	BCAC384 BCAC385 BCAC386	E1: Programming for Analytics E2: Business Statistics with R E3: Multivariate Data Analysis	4	3	20	80	100	2
	BCAC387	Project Work	20	3	100	Reports - 300 Presentation and Viva - 100 Total: 400	500	10
		Total	**36**	**27**	**180**	**720**	**900**	**18**

Total Marks   : 5200

Grand Total Credit for three year BCA Degree Programme: 104