



D Y Patil Agriculture & Technical University, Talsande

Structure & Contents for B.C.A. in School of Engineering and Technology
Program (AY 2021-22) R0

Structure for First Year Odd Semester (Semester I)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
BCA001101 Version: 1.0	Communication Skills	2	-	-	2	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001102 Version: 1.0	Problem Solving Using C	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001103 Version: 1.0	Operating System	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001104 Version: 1.0	Applied Mathematics	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001105 Version: 1.0	Data Communication	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001106 Version: 1.0	Problem Solving Using CLab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BCA001107 Version: 1.0	Linux Operating System Lab	-	1	2	3	Practical 100 Marks	FEP	50	40
							POE	50	40
Total		14	1	6	19	700 Marks	Total Hours: 21, Total Credits: 19		
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Structure for First Year Even Semester (Semester II)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
BCA001201 Version: 1.0	Environment Science	2	-	-	2	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001202 Version: 1.0	Data Structures	4		-	4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001203 Version: 1.0	OOPS Using C++	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001204 Version: 1.0	Software Engineering	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001205 Version: 1.0	Computer Network	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA001206 Version: 1.0	OOPS Using C++Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BCA001207 Version: 1.0	Data Structure Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
Total		15	-	8	19	700 Marks	Total Hours: 23, Total Credits: 19		

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Structure for Second Year Odd Semester (Semester III)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
BCA002301 Version: 1.0	IT Project Management	3	1	-	4	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002302 Version: 1.0	Relational Database Management System	3	-	-	3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002303 Version: 1.0	Programming Using Java	3	-	-	3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002304 Version: 1.0	Design and Implementation of Algorithms	3	1	-	4	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002305 Version: 1.0	Software Quality Assurance And Testing	3	1	-	4	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002306 Version: 1.0	Java Programming Lab	-	-	4	2	Practical 100Marks	FEP	50	40
							POE	50	40
BCA002307 Version: 1.0	RDBMS Lab	-	-	4	2	Practical 100Marks	FEP	50	40
							POE	50	40
Total		15	3	8	20	Total Hours: 26, Total Credits: 22			
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Structure for Second Year Even Semester (Semester IV)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
BCA002401 Version: 1.0	Web Technology	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002402 Version: 1.0	Programming with Python	4	-	-	4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002403 Version: 1.0	Computer Graphics	3	1	-	4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002404 Version: 1.0	Theory of Computation	3	1	-	4	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002405 Version: 1.0	Unstructured Database	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA002406 Version: 1.0	Python ProgrammingLab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BCA002407 Version: 1.0	Web Technology Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
Total		16	2	8	22	Total Hours:26, Total Credits: 22			

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Structure for Third Year Odd Semester (Semester V)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
BCA003501 Version: 1.0	C# Programming	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003502 Version: 1.0	Mobile Application Development	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003503E_ Version: 1.0	Elective - I	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003505 Version: 1.0	E-Commerce Technology	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003506 Version: 1.0	C# Programming Lab	-	-	4	2	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003507 Version: 1.0	Mobile Application Development Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BCA003508 Version: 1.0	Major Project Phase - I	-	-	6	3	Practical 100 Marks	FEP	50	40
							POE	50	40
Total		12	0	14	19	Total Hours: 26, Total Credits: 19			

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	Networking	AI	Applications	Information Security
Elective – I BCA003503E	Internet of Things	Data Mining and Warehousing	Simulation and Modeling	Cyber Security



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Structure for Third Year Even Semester (Semester VI)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT	Min. Pass %
BCA003401 Version: 1.0	Data Science	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003402 Version: 1.0	Advanced Web Development	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003403E_ Version: 1.0	Elective - II	3	-	-	3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003404 Version: 1.0	Data Science Lab	-	-	4	2	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003405 Version: 1.0	Advanced Web Development Lab	-	-	4	2	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BCA003406 Version: 1.0	Major Project Phase - II	-	-	12	6	Practical 100 Marks	FEP	50	40
							POE	50	40
Total		09	0	20	19	Total Hours: 29, Total Credits:19			
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	Networking	AI	Applications	Information Security
Elective – II BCA 003403E	Cloud Computing	Business Analytics	Storage and Data Center	Ethical Hacking