



D Y PATIL
AGRICULTURE
& TECHNICAL
UNIVERSITY
TALSANDE

D Y Patil Agriculture & Technical University, Talsande

Structure & Contents for B. Tech C.S.E. in School of Engineering and Technology
Program (AY 2023-24) R1

Structure for First Year Odd Semester (Semester I)									
Common subjects for Physics & Chemistry Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011101 Version: 2.0	Applied Mathematics – I	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011102 Version: 2.0	Basic Programming with C	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011103 Version: 2.0	Fundamentals of Web Development	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011104 Version: 2.0	Basic Programming with C Lab			4	2	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011105 Version: 2.0	Web Development Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
Structure for First Year Odd Semester (Semester I) Chemistry Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011C06 Version: 2.0	Engineering Chemistry	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011C07 Version: 2.0	Operating System	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011C08 Version: 2.0	Fundamentals of Electronics Engineering	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011C09 Version: 2.0	Environment Science	2			1	Theory 50Marks	ESE	50	40
BTCSE011C10 Version: 2.0	Fundamentals of Electronics Engineering Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011C11 Version: 2.0	Engineering Chemistry Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011C12 Version: 2.0	Yoga & Stress Management			2	1	Practical 50 Marks	FEP	50	40
Total		20		12	25	900 Marks	Total Hours: 32, Total Credits: 25		

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Common subjects for Physics & Chemistry Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011101 Version: 2.0	Applied Mathematics – I	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011102 Version: 2.0	Basic Programming with C	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011103 Version: 2.0	Fundamentals of Web Development	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011104 Version: 2.0	Basic Programming with C Lab			4	2	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011105 Version: 2.0	Web Development Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
Structure for First Year Odd Semester (Semester I) Physics Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011P06 Version: 2.0	Engineering Physics	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011P07 Version: 2.0	Computer Network & Communication	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011P08 Version: 2.0	Software Engineering	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011P09 Version: 2.0	Communication Skills	2			1	Theory 50Marks	ESE	50	40
BTCSE011P10 Version: 2.0	Communication Skills Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011P11 Version: 2.0	Engineering Physics Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011P12 Version: 2.0	Constitution of India			2	1	Practical 50 Marks	FEP	50	40
Total		20		12	25	900 Marks	Total Hours: 32, Total Credits: 25		



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Structure for First Year Odd Semester (Semester II)									
Common subjects for Physics & Chemistry Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011201 Version: 2.0	Applied Mathematics – II	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011202 Version: 2.0	Advance Programming with C	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011203 Version: 2.0	Advance Web Development	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011204 Version: 2.0	Advance Programming with C Lab			4	2	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011205 Version: 2.0	Adv Web Development Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
Structure for First Year Odd Semester (Semester I) Chemistry Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011C06 Version: 2.0	Engineering Chemistry	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011C07 Version: 2.0	Operating System	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011C08 Version: 2.0	Fundamentals of Electronics Engineering	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011C09 Version: 2.0	Environment Science	2			1	Theory 50Marks	ESE	50	40
BTCSE011C10 Version: 2.0	Fundamentals of Electronics Engineering Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011C11 Version: 2.0	Engineering Chemistry Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011C12 Version: 2.0	Yoga & Stress Management			2	1	Practical 50 Marks	FEP	50	40
Total		20		12	25	900 Marks	Total Hours: 32, Total Credits: 25		



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Structure for First Year Odd Semester (Semester II)									
Common subjects for Physics & Chemistry Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011201 Version: 2.0	Applied Mathematics – II	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011202 Version: 2.0	Advance Programming with C	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE0112103 Version: 2.0	Advance Web Development	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011204 Version: 2.0	Advance Programming with C Lab			4	2	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011205 Version: 2.0	Adv Web Development Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
Structure for First Year Odd Semester (Semester I) Physics Group									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
BTCSE011P06 Version: 2.0	Engineering Physics	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011P07 Version: 2.0	Computer Network & Communication	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011P08 Version: 2.0	Software Engineering	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE011P09 Version: 2.0	Communication Skills	2			1	Theory 50Marks	ESE	50	40
BTCSE011P10 Version: 2.0	Communication Skills Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011P11 Version: 2.0	Engineering Physics Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BTCSE011P12 Version: 2.0	Constitution of India			2	1	Practical 50 Marks	FEP	50	40
Total		20		12	25	700 Marks	Total Hours: 32, Total Credits: 25		



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Structure for Second Year Odd Semester (SemesterIII)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT %	Min. Pass %
BTCSE012301 Version: 2.0	Data Structure	3	1		4	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	
BTCSE012302 Version: 2.0		3			3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	
BTCSE012303 Version: 2.0	Object-Oriented Programming using C++	3			3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	
BTCSE012304 Version: 2.0	Software Quality Assurance And Testing	3			3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	
BTCSE012305 Version: 2.0	Data Structureusing C Lab			4	2	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	
BTCSE012306 Version: 2.0	OOPS using C++ Lab			4	2	Practical 100Marks	FEP	50	40
							POE	50	40
BTCSE012307 Version: 2.0	Mini Project using C			6	3	Practical 100Marks	FEP	50	40
							POE	50	40
Total		12	1	14	20	Total Hours: 27, Total Credits: 20			

FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MSE - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course



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Structure for Second Year Even Semester (SemesterIV)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT %	Min. Pass %
BTCSE012401 Version: 2.0	Design and Analysis of Algorithms	3	1		4	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE012402 Version: 2.0		3			3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE012403 Version: 2.0	Automata Theory	3			3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE012404 Version: 2.0	Relational Database Management System	3			3	Theory 100Marks	FET	20	40
							MSE	30	
							ESE	50	40
BTCSE012405 Version: 2.0	Java Programming	3			3	Practical 100Marks	FEP	50	40
							POE	50	40
BTCSE012406 Version: 2.0	Java Programming Lab			4	2	Practical 100Marks	FEP	50	40
							POE	50	40
BTCSE012407 Version: 2.0	RDBMS Lab			4	2	Practical 200Marks	FEP	50	40
							POE	50	40
Total		15	1	8	20	Total Hours:24, Total Credits: 20			

FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MSE - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course



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Structure for Third Year Even Semester (SemesterVIII)

Internship/ Capstone Project 20 Credits

FET – Faculty Evaluation Theory; FEP - Faculty Evaluation Practical; MSE - Mid Semester Examination; ESE – End Semester Examination; Au - Audit Course

Electives are to be decided by the students based on their personal choice, academic requirements, and in consultation with mentor and HOD. Following electives are offered by the department:

Program Elective – I (for Semester V) BTCSE013502E	Program Elective – II (for Semester VI) BTCSE013602E	Program Elective III (for Semester VII) BTCSE014702E
Information and Network Security	Internet of Things	Cloud Computing
Object-Oriented Analysis and Design	Pattern Recognition Techniques and Applications	Blockchain Technology
Computational Intelligence	Cyber Forensics	Ethical Hacking
Distributed database management	Parallel Computing	Big Data Analytics