



# D Y Patil Agriculture & Technical University, Talsande

**Structure & Contents for B. Tech C.S.E. 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 %	
BECSE001101 Version: 1.0	Applied Mathematics – I	3			3	Theory 100 Marks	FET	20	40	
							MSE	30		
							ESE	50	40	
BECSE001102 Version: 1.0	Engineering Physics	3			3	Theory 100 Marks	FET	20	40	
							MSE	30		
							ESE	50	40	
BECSE001103 Version: 1.0	Operating System	3			3	Theory 100 Marks	FET	20	40	
							MSE	30		
							ESE	50	40	
BECSE001104 Version: 1.0	Fundamentals of Electrical and Electronics Engineering	3			3	Theory 100 Marks	FET	20	40	
							MSE	30		
							ESE	50	40	
BECSE001105 Version: 1.0	Basic Programming with C	3			3	Theory 100 Marks	FET	20	40	
							MSE	30		
							ESE	50	40	
BECSE001106 Version: 1.0	Environment Science	2	-	-	1	Theory 50 Marks	ESE	50	40	
BECSE001107 Version: 1.0	Basic Programming with C Lab				4	2	Practical 50 Marks	FEP	25	40
							POE	25	40	
BECSE001108 Version: 1.0	Fundamentals of Electrical and Electronics Engineering Lab				2	1	Practical 50 Marks	FEP	25	40
							POE	25	40	
BECSE001109 Version: 1.0	Engineering Physics Lab				2	1	Practical 50 Marks	FEP	25	40
							POE	25	40	
<b>Total</b>		<b>17</b>	<b>-</b>	<b>8</b>	<b>20</b>	<b>700 Marks</b>	<b>Total Hours: 25, Total Credits: 20</b>			

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**Structure & Contents for B. Tech C.S.E. in School of Engineering and Technology  
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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 %
BECSE001201 Version: 1.0	Applied Mathematics – II	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BECSE001202 Version: 1.0	Engineering Chemistry	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BECSE001203 Version: 1.0	Computer Network & Communication	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BECSE001204 Version: 1.0	Discrete Mathematics	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BECSE001205 Version: 1.0	Problem solving using Advanced C Programming	3			3	Theory 100 Marks	FET	20	40
							MSE	30	
							ESE	50	40
BECSE001206 Version: 1.0	Communication Skills	2			2	Theory 50 Marks	ESE	50	40
BECSE001207 Version: 1.0	Engineering Chemistry			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BECSE001208 Version: 1.0	Advanced C Programming Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
BECSE001209 Version: 1.0	Communication Skills Lab			2	1	Practical 50 Marks	FEP	25	40
							POE	25	40
<b>Total</b>		<b>17</b>			<b>8</b>	<b>20</b>	<b>700 Marks</b>	<b>Total Hours: 25, Total Credits: 20</b>	

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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 %
BECSE201 Version: 1.0	Data Structure	3	1		4	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE203 Version: 1.0	Software Engineering	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE205 Version: 1.0	Object Oriented Programming using C++	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE207 Version: 1.0	Software Quality Assurance And Testing	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE209 Version: 1.0	Data Structure using C Lab			4	2	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE211 Version: 1.0	OOPS using C++ Lab			4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BECSE213 Version: 1.0	Mini Project using C			6	3	Practical 100 Marks	FEP	50	40
							POE	50	40
<b>Total</b>		<b>12</b>	<b>1</b>	<b>14</b>	<b>20</b>	<b>Total Hours: 27, Total Credits: 20</b>			
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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 %	
BECSE202 Version: 1.0	Design and Analysis of Algorithms	3	1		4	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE204 Version: 1.0	Computer Graphics	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE206 Version: 1.0	Automata Theory	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE208 Version: 1.0	Relational Database Management System	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE210 Version: 1.0	Java Programming	3			3	Practical 100 Marks	FEP	50	40	
							POE	50	40	
BECSE212 Version: 1.0	Java Programming Lab				4	2	Practical 100 Marks	FEP	50	40
								POE	50	40
BECSE214 Version: 1.0	RDBMS Lab				4	2	Practical 200 Marks	FEP	50	40
								POE	50	40
<b>Total</b>		<b>15</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>Total Hours: 24, Total Credits: 20</b>				
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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 %
BECSE301 Version: 1.0	Compiler Design	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE303_ Version: 1.0	Elective - I	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE305 Version: 1.0	Computer Organization & Architecture	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE307 Version: 1.0	Python Programming	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE309 Version: 1.0	Web Development	3			3	Theory 100 Marks	FET	20	40
							CAT I	30	
							CAT II	30	
							ESE	50	40
BECSE311 Version: 1.0	Web Development Lab			4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BECSE313 Version: 1.0	Python Programming Lab			4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
BECSE315 Version: 1.0	Mini Project using C++/Web Site			2	1	Practical 100 Marks	FEP	50	40
							POE	50	40
<b>Total</b>		<b>15</b>			<b>10</b>	<b>20</b>	<b>Total Hours: 25, Total Credits: 20</b>		

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**Structure & Contents for B. Tech C.S.E. in School of Engineering and Technology  
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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 %	
BECSE302 Version: 1.0	Machine Learning	3	1		4	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE304_ Version: 1.0	Elective - II	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE306 Version: 1.0	C# .net Programming	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE308 Version: 1.0	Mobile Application Development	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE310 Version: 1.0	Cloud Computing	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE312 Version: 1.0	Mobile Application Development Lab				4	2	Practical 100 Marks	FEP	50	40
								POE	50	40
BECSE314 Version: 1.0	C#. net Lab				4	2	Practical 100 Marks	FEP	50	40
								POE	50	40
<b>Total</b>		<b>15</b>	<b>1</b>	<b>8</b>	<b>20</b>	<b>Total Hours: 24, Total Credits: 20</b>				

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

Structure for Final Year Odd Semester ( Semester VII )										
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme			
							Exam	WT %	Min. Pass %	
BECSE401 Version: 1.0	Advance Web Development	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE403_ Version: 1.0	Elective - III	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE405 Version: 1.0	Data Analytics	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE407 Version: 1.0	Parallel Computing	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE409 Version: 1.0	Deep Learning	3			3	Theory 100 Marks	FET	20	40	
							CAT I	30		
							CAT II	30		
							ESE	50	40	
BECSE411 Version: 1.0	Advance Web Development Lab				4	2	Practical 100 Marks	FEP	50	40
								POE	50	40
BECSE413 Version: 1.0	Mini Project using Java/C#				6	3	Practical 100 Marks	FEP	50	40
								POE	50	40
<b>Total</b>		<b>15</b>			<b>10</b>	<b>20</b>	<b>Total Hours: 25, Total Credits: 20</b>			
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**Structure & Contents for B. Tech C.S.E. in School of Engineering and Technology  
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**Structure for Third Year Even Semester ( Semester VIII )**

## **Internship/ Capstone Project 20 Credits**

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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:

<b>Program Elective – I (for Semester V) BECSE303_</b>	<b>Program Elective – II (for Semester VI) BECSE304_</b>	<b>Program Elective III (for Semester VII) BECSE403_</b>
Information and Network Security	Internet of Things	Cloud Computing
Object Oriented Analysis and Design	Pattern Recognition Techniques and Applications	Block Chain Technology
Computational Intelligence	Cyber Forensics	Ethical Hacking
Distributed database management	Parallel Computing	Big Data Analytics