

**SCHOOL OF ENGINEERING AND TECHNOLOGY  
SRI PADMAVATI MAHILA VISVAVIDYALAYAM  
(Women's University)  
TIRUPATI – 517 502, ANDHRA PRADESH**



**B.TECH - SCHEME OF EVALUATION – R16**

**Department of Computer Science and Engineering  
Effective from 2016-17 under CBCS**

# **SCHEME OF EVALUATION**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**SRI PADMAVATI MAHILA VISVAVISYALAYAM**  
**(SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (CSE))**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**I YEAR – I SEMESTER (2016-17)**

<b>THEORY</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation				Total Marks	
			L	T	P		Internal Test (30Marks)		External (70 Marks)			
							Duration (Hrs)	Max. Marks	Duration	Max.		
1	BST02	Environmental Studies	4	-	-	4	2	30	3	70	100	
2	BST03	Engineering Mathematics – I	4	-	-	4	2	30	3	70	100	
3	BST04	Engineering Chemistry	4	-	-	4	2	30	3	70	100	
4	CST01	Problem Solving and Computer Programming	4	-	-	4	2	30	3	70	100	
5	ECT01	Electronic Materials and Devices	4	-	-	4	2	30	3	70	100	
<b>PRACTICALS</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation				Total Marks	
			L	T	P		Internal (40 Marks)		External (60 Marks)			
							Continuous	Test	Max. Marks	Duration		Max.
6	MEP01	Engineering Graphics	-	-	4	2	20	2	20	3	60	100
7	MEP02	Work Shop Practice	-	-	2	1	20	2	20	3	60	100
8	BSP02	Engineering Chemistry Lab	-	-	2	1	20	2	20	3	60	100
9	CSP01	Computer Programming Lab	-	-	2	1	20	2	20	3	60	100
<b>Total</b>				<b>20</b>	<b>10</b>	<b>25</b>					<b>900</b>	

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**DEPARTMENT COMPUTER SCIENCE AND ENGINEERING**  
**I YEAR – II SEMESTER (2016-17)**

<b>THEORY</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation				Total Marks	
			L	T	P		Internal Test(30Marks)		External (70 Marks)			
							Duration (Hrs)	Max.	Duration	Max.		
1	BST01	English	4	-	-	4	2	30	3	70	100	
2	BST06	Engineering Mathematics – II	4	-	-	4	2	30	3	70	100	
3	BST05	Engineering Physics	4	-	-	4	2	30	3	70	100	
4	CST02	Data Structures	4	-	-	4	2	30	3	70	100	
5	MET19	Elements of Mechanical Engineering	4	-	-	4	2	30	3	70	100	
6	CST03	Discrete Mathematical Structures	4	-	-	4	2	30	3	70	100	
<b>PRACTICALS</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation				Total Marks	
			L	T	P		Internal (40 Marks)		External (60 Marks)			
							Continuous	Test	Duration	Max.		
			Max. Marks	Duration	Max.	Duration	Max.					
7	BSP01	English Language Lab	-	-	2	1	20	2	20	3	60	100
8	BSP03	Engineering Physics Lab	-	-	2	1	20	2	20	3	60	100
9	CSP02	Data Structures Lab	-	-	2	1	20	2	20	3	60	100
<b>Total</b>				<b>24</b>	<b>6</b>	<b>27</b>						<b>900</b>

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**SRI PADMAVATI MAHILA VISVAVIDYALAYAM**  
**SCHEME OF INSTRUCTION AND EVALUATION OF 4 YEARS B. TECH (C.S.E) DEGREE**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING 2016- 17**

S.No.	Course Number	Name of the Course	Instructions ((hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks		
1	BST08	Probability and Statistics	4	-	4	2	30	3	70	100	
2	BST09	Managerial Economics And Financial Analysis	4	-	4	2	30	3	70	100	
3	CST04	Java Programming	4	-	4	2	30	3	70	100	
4	ECT21	Digital Logic Design	4	-	4	2	30	3	70	100	
5	EET17	Basic Electrical Engineering	4	-	4	2	30	3	70	100	
6	CST05	Database Management Systems	4	-	4	2	30	3	70	100	
<b>PRACTICALS</b>											
S.No.	Course Number	Name of the Course	Instructions ((hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in (hrs)		Max. Marks
7	CSP03	Java Programming Lab	-	2	1	20	2	20	3	60	100
8	CSP04	Database Management Systems Lab	-	2	1	20	2	20	3	60	100
<b>TOTAL</b>			24	4	26	-	-	-	-	800	

**II YEAR- I SEMESTER**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
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**COMPUTER SCIENCE & ENGINEERING 2016- 17**

S.No.	Course Number	Name of the Course	Instructions ((hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks		
1	<b>CST06</b>	Data Communication	4	-	4	2	30	3	70	100	
2	<b>CST07</b>	Unix and Shell Programming	4	-	4	2	30	3	70	100	
3	<b>CST08</b>	Computer Organization	4	-	4	2	30	3	70	100	
4	<b>CST09</b>	Operating Systems	4	-	4	2	30	3	70	100	
5	<b>CST10</b>	Principles of Programming Language	4	-	4	2	30	3	70	100	
6	<b>BST11</b>	Industrial Management Science	4	-	4	2	30	3	70	100	
<b>PRACTICALS</b>											
S.No.	Course Number	Name of the Course	Instructions ((hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in (hrs)		Max. Marks
7	CSP05	Unix and Shell Programming Lab	-	2	1	20	2	20	3	60	100
8	CSP06	Operating Systems Lab	-	2	1	20	2	20	3	60	100
<b>TOTAL</b>			24	4	26	-		-	-	-	800

**II YEAR- II SEMESTER**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**SRI PADMAVATI MAHILA VISVAVIDYALAYAM**  
**(WOMEN'S UNIVERSITY), TIRUPATI- 517 502**  
**SCHEME OF INSTRUCTION AND EVALUATION OF 4 YEARS B. TECH (C.S.E) DEGREE**  
**COMPUTER SCIENCE & ENGINEERING 2016- 17**

S.No.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks		
1	CST11	Cryptography and Network Security	4	-	4	2	30	3	70	100	
2	CST12	Theory Of Computation	4	-	4	2	30	3	70	100	
3	CST13	Object Oriented Software Design	4	-	4	2	30	3	70	100	
4	CST14	Artificial Intelligence	4	-	4	2	30	3	70	100	
5	CST15	Systems Programming	4	-	4	2	30	3	70	100	
6	CST16	Design and Analysis of Algorithms	4	-	4	2	30	3	70	100	
<b>PRACTICALS</b>											
S.No.	Course Number	Name of the Course	Instructions (hrs per week)			Continuous Evaluation Max Marks	Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits		Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in (hrs)	Max. Marks	
7	CSP07	Object Oriented Software Design & Systems Programming Lab	-	2	1	20	2	20	3	60	100
8	CSP08	Design and Analysis of Algorithms & Artificial Intelligence Lab	-	2	1	20	2	20	3	60	100
<b>TOTAL</b>			<b>24</b>	<b>4</b>	<b>26</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>

**III YEAR- I SEMESTER**

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COMPUTER SCIENCE & ENGINEERING 2016- 17**

S.No.	Course Number	Name of the Course	Instructions ((hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks		
1	<b>MET18</b>	Operations Research	4	-	4	2	30	3	70	100	
2	<b>CST17</b>	Computer Networks	4	-	4	2	30	3	70	100	
3	<b>ECT26</b>	Microprocessors and Applications	4	-	4	2	30	3	70	100	
4	<b>CST18</b>	Software Engineering	3	-	3	2	30	3	70	100	
5		<b>Elective I</b>	3	-	3	2	30	3	70	100	
6		<b>Elective II</b>	3	-	3	2	30	3	70	100	
<b>PRACTICALS</b>											
S.No.	Course Number	Name of the Course	Instructions ((hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in (hrs)		Max. Marks
7	<b>CSP09</b>	Computer Networks Lab	-	2	1	20	2	20	3	60	100
8	<b>ECP17</b>	Microprocessors and Applications Lab	-	2	1	20	2	20	3	60	100
9	<b>BSP04</b>	Soft skills Lab	-	2	1	20	2	20	3	60	100
<b>TOTAL</b>			<b>21</b>	<b>6</b>	<b>24</b>						<b>900</b>

**III YEAR- II SEMESTER**



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**COMPUTER SCIENCE & ENGINEERING 2016- 17**

S.No.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks		
1	CST19	Web Technologies	4	-	4	2	30	3	70	100	
2	CST20	Compiler Design	4	-	4	2	30	3	70	100	
3	CST21	Data Mining	4	-	4	2	30	3	70	100	
4	CST22	Distributed Systems	4	-	4	2	30	3	70	100	
5		<b>Elective III</b>	3	-	3	2	30	3	70	100	
6		<b>Elective IV</b>	3	-	3	2	30	3	70	100	
<b>PRACTICALS</b>											
S.No.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in (hrs)		Max. Marks
7	CSP10	Compiler Design Lab	-	2	1	20	2	20	3	60	100
8	CSP11	Web Technologies & Data Mining Lab	-	2	1	20	2	20	3	60	100
<b>TOTAL</b>			<b>22</b>	<b>4</b>	<b>24</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>

**IV YEAR- I SEMESTER**

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COMPUTER SCIENCE & ENGINEERING 2016- 17**

S.No.	Course Number	Name of the Course	Instructions (hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks		
1	CST23	Cloud Computing	4	-	4	2	30	3	70	100	
2		<b>Elective-V</b>	3	-	3	2	30	3	70	100	
3		<b>Elective-VI</b>	3	-	3	2	30	3	70	100	
<b>PRACTICALS</b>											
S.No.	Course Number	Name of the Course	Instructions (hrs) per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in (hrs)		Max. Marks
5	CSP12	Project Work	-	-	6	20	2	20	3	60	100
<b>TOTAL</b>			<b>10</b>		<b>16</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>400</b>

**IV YEAR- II SEMESTER**

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**COMPUTER SCIENCE & ENGINEERING 2016- 17**

**III YEAR-II SEMESTER**

**LIST OF ELECTIVES**

S.No.	Course Number	Name of the Course	Instructions (hrs) per week)			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
		<b>Elective I</b>								
1	CST24	Python Programming	3	-	3	2	30	3	70	100
2	CST25	Enterprise Resource Planning	3	-	3	2	30	3	70	100
3	CST26	Soft Computing	3	-	3	2	30	3	70	100
4	CST27	Mobile Computing	3	-	3	2	30	3	70	100
5	CSP13	Advanced Programming Lab	3	-	3	2	40	3	60	100
		<b>Elective II</b>								
1	CST28	Cyber Physical Systems	3	-	3	2	30	3	70	100
2	CST29	Design Patterns	3	-	3	2	30	3	70	100
3	ECT10	Digital Signal Processing	3	-	3	2	30	3	70	100
4	MUP01	Music(Open Elective)			4		40	3	60	100
5	MUP02	Dance-Bharathanatyam(Open Elective)			4		40	3	60	100
6	MUP03	Dance-Kuchipudi(Open Elective)			4		40	3	60	100

**IV YEAR-I SEMESTER LIST OF ELECTIVES**

S.No.	Course Number	Name of the Course	Instructions (hrs) per week)			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
		<b>Elective III</b>								
1	<b>CST30</b>	Cyber Security	3	-	3	2	30	3	70	100
2	<b>CST31</b>	Software Project Management	3	-	3	2	30	3	70	100
3	<b>MET33</b>	Industrial Robotics	3	-	3	2	30	3	70	100
4	<b>CST32</b>	Big Data Analytics	3	-	3	2	30	3	70	100
		<b>Elective IV</b>								
1	<b>CST33</b>	R Programming	3	-	3	2	30	3	70	100
2	<b>ECT36</b>	Digital Image Processing	3	-	3	2	30	3	70	100
3	<b>CST34</b>	Natural Language Processing	3	-	3	2	30	3	70	100
4	<b>CST35</b>	Android Application Development	3	-	3	2	30	3	70	100

**IV YEAR-II SEMESTER LIST OF ELECTIVES**

S.No.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
		<b>Elective-V</b>	3	-	3	2	30	3	70	100
1	<b>CST36</b>	Internet of Things	3	-	3	2	30	3	70	100
2	<b>CST37</b>	Wireless Networks	3	-	3	2	30	3	70	100
3	<b>CST38</b>	Software Testing	3	-	3	2	30	3	70	100
4	<b>CST39</b>	Real-time Systems	3	-	3	2	30	3	70	100
		<b>Elective-VI</b>	3	-	3	2	30	3	70	100
1	<b>CST40</b>	Ethical Hacking	3	-	3	2	30	3	70	100
2	<b>CST41</b>	Multimedia Systems	3	-	3	2	30	3	70	100
3	<b>ECT19</b>	Embedded Systems	3	-	3	2	30	3	70	100
4	<b>CST42</b>	Computer Graphics	3	-	3	2	30	3	70	100

