

<b>VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI</b> <b>Scheme of Teaching and Examination – 2018-19</b> <b>M.Tech COMPUTER SCIENCE AND ENGINEERING (SCS)</b> <b>Outcome Based Education(OBE) and Choice Based Credit System (CBCS)</b>										
<b>I SEMESTER</b>										
Sl. No	Course	Course Code	CourseTitle	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18SCS11	Mathematics	04	--	03	40	60	100	4
2	PCC	18SCS12	Advances in Operating Systems	04	--	03	40	60	100	4
3	PCC	18SCS13	Advances in Data Base Management System	04	--	03	40	60	100	4
4	PCC	18SCS14	Internet of Things	04	--	03	40	60	100	4
5	PEC	18SCS15X	Professional Elective -1	04	--	03	40	60	100	4
6	PCC	18SCSL16	IOT and ADBMS Laboratory	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
<b>TOTAL</b>				<b>22</b>	<b>04</b>	<b>21</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>24</b>
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional Elective 1</b>										
<b>Course Code under 18SCS15X</b>		<b>Course title</b>								
18SCS151		Advances in Computer Networks								
18SCS152		Multi Core Architecture and Programming								
18SCS153		Data Compression								
18SCS154		Computer Systems Performance Analysis								
<b>Internship:</b> All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.										

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II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18SCS21	Managing Big Data	04	--	03	40	60	100	4
2	PCC	18SCS22	Advanced Algorithms	04	--	03	40	60	100	4
3	PCC	18SCS23	Cloud Computing	04	--	03	40	60	100	4
4	PEC	18SCS24X	Professional elective 2	04	--	03	40	60	100	4
5	PEC	18SCS25X	Professional elective 3	04	--	03	40	60	100	4
6	PCC	18SCSL26	Mini Project	--	04	03	40	60	100	2
7	PCC	18SCS27	Technical Seminar	--	02	--	100	--	100	2
<b>TOTAL</b>				<b>20</b>	<b>06</b>	<b>18</b>	<b>340</b>	<b>360</b>	<b>700</b>	<b>24</b>
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional Elective 2</b>					<b>Professional Elective 3</b>					
<b>Course Code under 18SCS24X</b>		<b>Course title</b>			<b>Course Code under 18SCS25X</b>		<b>Course title</b>			
18SCS241		Advances in Storage Area Network			18SCS251		Advances in Computer Graphics			
18SCS242		Agile Technologies			18SCS252		Trends in Artificial Intelligence and Soft Computing			
18SCS243		Business Intelligence and its Applications			18SCS253		Object Oriented Software Engineering			
18SCS244		Data Mining & Data Warehousing			18SCS254		Advances in Digital Image Processing			
<b>Note:</b>										
<p><b>1. Technical Seminar:</b> CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.</p> <p>The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p><b>2. Internship:</b> All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.</p>										

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III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18SCS31	Machine Learning Techniques	04	--	03	40	60	100	4
2	PEC	18SCS32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18SCS33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18SCS34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18SCSI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
<b>TOTAL</b>				12	02	12	<b>260</b>	<b>240</b>	<b>500</b>	<b>20</b>
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional elective 4</b>					<b>Professional elective 5</b>					
<b>Course Code under 18SCS32X</b>		<b>Course title</b>			<b>Course Code under 18SCS33X</b>		<b>Course title</b>			
18SCS321		Embedded Computing Systems			18SCS331		Application And Web Security			
18SCS322		Information and Network Security			18SCS332		Software Project Planning & Management			
18SCS323		Wireless Networks & Mobile Computing			18SCS333		Natural Language Processing and Text Mining			
18SCS324		Enterprise Application Programming			18SCS334		Cyber Security And Cyber Law			
<b>Note:</b>										
<p><b>1. Project Phase-1:</b> Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>SEE (University examination) shall be as per the University norms.</p> <p><b>2. Internship:</b> Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.</p> <p>Internship SEE (University examination) shall be as per the University norms.</p>										

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<b>IV SEMESTER</b>										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	18SCS41	Project work phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<p><b>Note:</b>  <b>1. Project Phase-2:</b>            CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.            SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.</p>										

