

<b>VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI</b> <b>Scheme of Teaching and Examination – 2018-19</b> <b>M.Tech SOFTWARE ENGINEERING (SSE)</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	18SSE11	Mathematical Foundation of Computer Science	04	--	03	40	60	100	4
2	PCC	18SSE12	Advances in Software Testing	04	--	03	40	60	100	4
3	PCC	18SSE13	Object Oriented Software Engineering	04	--	03	40	60	100	4
4	PCC	18SSE14	Service Oriented Architecture	04	--	03	40	60	100	4
5	PEC	18SSE15X	Professional Elective -1	04	--	03	40	60	100	4
6	PCC	18SSEL16	Software Testing and Data Base Management Systems 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 18SSE15X</b>		<b>Course title</b>								
18SSE151		Advances in Data Base Management System								
18SSE152		Distributed Operating System								
18SSE153		Advances in Storage Area Network								
18SSE154		Web Services								
<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	18SSE21	Software Project Planning & Management	04	--	03	40	60	100	4
2	PCC	18SSE22	Enterprise Application Programming	04	--	03	40	60	100	4
3	PCC	18SSE23	Software Design Patterns	04	--	03	40	60	100	4
4	PEC	18SSE24X	Professional elective 2	04	--	03	40	60	100	4
5	PEC	18SSE25X	Professional elective 3	04	--	03	40	60	100	4
6	PCC	18SSEL26	Mini Project	--	04	03	40	60	100	2
7	PCC	18SSE27	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 18SSE24X</b>		<b>Course title</b>			<b>Course Code under 18SSE25X</b>		<b>Course title</b>			
18SSE241		Data Mining & Data Warehousing			18SSE251		Cloud Computing			
18SSE242		Software Metrics & Quality Assurance			18SSE252		Software Agents			
18SSE243		Information Retrieval			18SSE253		Trust Management In E-Commerce			
18SSE244		Advanced Algorithms			18SSE254		Trends in Artificial Intelligence and Soft Computing			
<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. 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	18SSE31	Soft Computing	04	--	03	40	60	100	4
2	PEC	18SSE32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18SSE33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18SSE34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18SSEI35	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 18SSE32X</b>		<b>Course title</b>			<b>Course Code under 18SSE33X</b>		<b>Course title</b>			
18SSE321		Internet of Things			18SSE331		Web Mining			
18SSE322		Managing Big Data			18SSE332		Advances In Operating Systems			
18SSE323		Agile Technologies			18SSE333		Database Security			
18SSE324		Supply Chain Management			18SSE334		Machine Learning Techniques			
<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	18SSE41	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>										

