

<b>VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI</b> <b>Scheme of Teaching and Examination – 2018-19</b> <b>M.Tech CYBER FORENSICS AND INFORMATION SECURITY (SFC)</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	18SFC11	Mathematical Foundation of Computer Science	04	--	03	40	60	100	4
2	PCC	18SFC12	Ethical Hacking	04	--	03	40	60	100	4
3	PCC	18SFC13	Pragmatic of Information Security	04	--	03	40	60	100	4
4	PCC	18SFC14	Cyber Crime and Cyber Forensics	04	--	03	40	60	100	4
5	PEC	18SFC15X	Professional Elective -1	04	--	03	40	60	100	4
6	PCC	18SFCL16	Ethical Hacking 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 18SFC15X</b>		<b>Course title</b>								
18SFC151		Access Control and Identity Management System								
18SFC152		Cloud Security								
18SFC153		Advanced Cryptography								
18SFC154		Application and Web Security								
<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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<b>II 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		Total Marks
1	PCC	18SFC21	Preserving and Recovering Digital Evidence	04	--	03	40	60	100	4
2	PCC	18SFC22	Operating System Security	04	--	03	40	60	100	4
3	PCC	18SFC23	Secured Programming	04	--	03	40	60	100	4
4	PEC	18SFC24X	Professional elective 2	04	--	03	40	60	100	4
5	PEC	18SFC25X	Professional elective 3	04	--	03	40	60	100	4
6	PCC	18SFCL26	Mini Project	--	04	03	40	60	100	2
7	PCC	18SFC27	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 18SFC24X</b>		<b>Course title</b>			<b>Course Code under 18SFC25X</b>		<b>Course title</b>			
18SFC241		Cyber Laws and Ethics			18SFC251		Data Mining & Data Warehousing			
18SFC242		Biometric Security			18SFC252		Database Security			
18SFC243		Information Security Policies in Industry			18SFC253		Enterprise Application Programming			
18SFC244		Trust Management in E-commerce			18SFC254		Machine Learning Techniques			
<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	18SFC31	File System Forensic Analysis	04	--	03	40	60	100	4
2	PEC	18SFC32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18SFC33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18SFC34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18SFCI35	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	260	240	500	20
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional elective 4</b>					<b>Professional elective 5</b>					
<b>Course Code under 18SFC32X</b>	<b>Course title</b>			<b>Course Code under 18SFC33X</b>	<b>Course title</b>					
18SFC321	Security Architecture Design			18SFC331	Managing Big Data					
18SFC322	Steganography and Digital Watermarking			18SFC332	Mobile Application Development					
18SFC323	Mobile Device Forensics			18SFC333	Social Network Analysis					
18SFC324	Security Assessment and Verification			18SFC334	Software Metrics & Quality Assurance					
<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	18SFC41	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>

**Note:****1. Project Phase-2:**

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.

